

**Table 1. Total Energy Supply and Disposition Summary (1 of 2)**  
**(Quadrillion Btu per Year, Unless Otherwise Noted)**

Supply, Disposition, and Prices	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1999-2020	
<b>Production</b>																									
Crude Oil and Lease Condensate	13.19	12.45	12.44	12.45	11.91	11.61	11.37	11.07	10.70	10.25	9.88	9.68	9.55	9.41	9.38	9.31	9.21	9.25	9.34	9.40	9.38	9.35	9.22	-1.4%	
Natural Gas Plant Liquids	2.49	2.62	2.76	2.74	2.83	2.90	2.97	2.97	3.02	3.10	3.15	3.22	3.32	3.38	3.45	3.52	3.61	3.70	3.76	3.84	3.92	3.97	3.99	2.0%	
Dry Natural Gas	19.19	19.16	19.09	18.95	19.66	20.23	20.82	20.89	21.31	21.90	22.32	22.86	23.62	24.10	24.68	25.27	25.96	26.65	27.13	27.81	28.43	28.80	28.99	2.0%	
Coal	23.76	23.09	23.05	23.48	24.33	24.68	24.88	25.30	25.34	25.39	25.48	25.53	25.59	25.67	25.74	25.84	25.87	25.92	25.95	26.03	26.02	26.10	26.20	0.6%	
Nuclear Power	7.19	7.79	7.98	7.86	7.87	7.88	7.89	7.90	7.91	7.88	7.87	7.87	7.69	7.61	7.53	7.29	7.05	6.79	6.61	6.36	6.18	6.17	6.09	-1.2%	
Renewable Energy 1/	6.62	6.58	6.42	6.63	6.81	6.90	6.90	7.07	7.19	7.36	7.53	7.57	7.65	7.70	7.76	7.83	7.92	7.99	8.05	8.11	8.11	8.20	8.19	1.1%	
Other 2/	0.65	1.65	1.30	0.32	0.31	0.35	0.36	0.36	0.35	0.36	0.37	0.37	0.31	0.32	0.32	0.32	0.33	0.33	0.33	0.33	0.33	0.33	0.33	-7.3%	
Total	73.10	73.35	73.05	72.44	73.71	74.55	75.18	75.57	75.82	76.23	76.61	77.10	77.72	78.19	78.86	79.37	79.95	80.63	81.18	81.88	82.38	82.92	83.02	0.6%	
<b>Imports</b>																									
Crude Oil 3/	18.90	18.96	19.56	20.47	21.44	21.82	22.22	22.70	23.15	24.16	24.90	25.42	25.85	26.11	26.79	27.17	27.58	28.11	28.31	28.57	28.65	28.74	28.93	2.0%	
Petroleum Products 4/	3.99	4.14	4.16	5.38	5.55	6.06	6.46	6.97	7.53	7.61	7.87	8.19	8.44	8.89	8.82	9.17	9.51	9.66	10.18	10.44	10.97	11.64	12.59	5.4%	
Natural Gas	3.22	3.63	3.80	4.03	4.23	4.54	4.78	5.00	5.16	5.31	5.47	5.59	5.73	5.82	5.92	6.02	6.10	6.20	6.29	6.35	6.40	6.45	6.50	2.8%	
Other Imports 5/	0.58	0.62	0.68	0.76	0.93	1.01	1.00	1.06	1.05	1.02	0.97	0.94	0.89	0.91	0.87	0.87	0.87	0.88	0.90	0.92	0.94	0.95	0.94	2.0%	
Total	26.69	27.35	28.20	30.65	32.16	33.42	34.46	35.73	36.89	38.10	39.20	40.15	40.91	41.72	42.40	43.22	44.06	44.85	45.69	46.29	46.96	47.78	48.96	2.8%	
<b>Exports</b>																									
Petroleum 6/	1.94	1.98	1.99	1.73	1.64	1.67	1.67	1.67	1.70	1.71	1.73	1.74	1.74	1.76	1.77	1.78	1.79	1.80	1.85	1.87	1.89	1.91	1.95	-0.1%	
Natural Gas	0.16	0.17	0.20	0.23	0.26	0.28	0.31	0.33	0.34	0.37	0.39	0.41	0.43	0.45	0.47	0.49	0.51	0.53	0.55	0.57	0.59	0.61	0.63	6.5%	
Coal	1.99	1.48	1.47	1.52	1.51	1.51	1.51	1.51	1.50	1.49	1.48	1.47	1.45	1.43	1.42	1.42	1.39	1.37	1.36	1.37	1.38	1.39	1.41	-0.2%	
Total	4.09	3.62	3.66	3.48	3.41	3.46	3.49	3.50	3.54	3.57	3.60	3.62	3.62	3.65	3.66	3.70	3.69	3.71	3.76	3.81	3.86	3.92	3.99	0.5%	
Discrepancy 7/	0.86	0.94	-0.03	-0.38	0.09	0.19	0.23	0.24	0.21	0.28	0.26	0.39	0.40	0.40	0.44	0.45	0.48	0.51	0.51	0.54	0.55	0.55	0.60	N/A	
<b>Consumption</b>																									
Petroleum Products 8/	37.16	38.03	38.13	39.60	40.31	40.93	41.56	42.24	42.95	43.59	44.21	44.89	45.55	46.13	46.76	47.47	48.19	48.95	49.77	50.41	51.04	51.80	52.74	1.6%	
Natural Gas	21.96	21.95	22.55	22.76	23.67	24.47	25.26	25.53	26.05	26.76	27.41	27.94	28.73	29.30	29.96	30.62	31.38	32.14	32.70	33.41	34.09	34.47	34.68	2.2%	
Coal	21.61	21.43	22.16	22.76	23.19	23.56	23.79	24.25	24.31	24.40	24.51	24.58	24.67	24.79	24.88	25.00	25.06	25.15	25.20	25.27	25.25	25.33	25.45	0.8%	
Nuclear Power	7.19	7.79	7.98	7.86	7.87	7.88	7.89	7.90	7.91	7.88	7.87	7.87	7.69	7.61	7.53	7.29	7.05	6.79	6.61	6.36	6.18	6.17	6.09	-1.2%	
Renewable Energy 1/	6.63	6.59	6.43	6.63	6.81	6.90	6.90	7.08	7.20	7.36	7.54	7.58	7.66	7.71	7.77	7.83	7.93	8.00	8.06	8.12	8.12	8.21	8.20	1.0%	
Other 9/	0.29	0.34	0.36	0.38	0.52	0.57	0.52	0.55	0.53	0.48	0.41	0.38	0.31	0.31	0.26	0.24	0.23	0.23	0.24	0.24	0.25	0.25	0.23	-1.9%	
Total	94.84	96.14	97.62	99.99	102.37	104.32	105.93	107.56	108.96	110.48	111.96	113.23	114.61	115.85	117.16	118.45	119.84	121.25	122.59	123.81	124.93	126.23	127.39	1.3%	
Net Imports - Petroleum	20.95	21.12	21.73	24.13	25.36	26.20	27.01	28.00	28.98	30.06	31.04	31.87	32.55	33.23	33.84	34.55	35.30	35.97	36.64	37.14	37.73	38.46	39.57	3.0%	
<b>Prices (1999 dollars per unit)</b>																									
World Oil Price (dollars per barrel) 10/	12.02	17.35	27.59	20.51	17.18	15.79	15.37	15.10	15.10	15.10	15.10	15.10	15.10	15.10	15.10	15.10	15.10	15.10	15.10	15.10	15.10	15.10	15.10	-0.7%	
11/	2.02	2.08	3.32	3.28	2.74	2.47	2.40	2.45	2.50	2.56	2.60	2.62	2.66	2.67	2.69	2.71	2.74	2.77	2.80	2.85	2.90	2.96	3.01	1.8%	
Coal Minemouth Price (dollars per ton)	18.02	16.98	16.29	15.73	15.27	15.06	14.85	14.72	14.70	14.47	14.22	14.02	13.94	13.81	13.68	13.60	13.55	13.44	13.34	13.28	13.29	13.20	12.84	-1.3%	
kilowatthour)	6.8	6.7	6.8	6.7	6.5	6.4	6.3	6.1	6.1	6.0	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	-0.6%	

1/ Includes grid-connected electricity from conventional hydroelectric; wood and wood waste; landfill gas; municipal solid waste; other biomass; wind; photovoltaic and solar thermal sources; non-electric energy from renewable sources, such as active and passive solar systems, and wood; and both the ethanol and gasoline components of E85, but not the ethanol components of blends less than 85 percent. Excludes electricity imports using renewable sources and nonmarketed renewable energy. See Table 18 for selected nonmarketed residential and commercial renewable energy.

2/ Includes liquid hydrogen, methanol, supplemental natural gas, and some domestic inputs to refineries.

3/ Includes imports of crude oil for the Strategic Petroleum Reserve.

4/ Includes imports of finished petroleum products, imports of unfinished oils, alcohols, ethers, and blending components.

5/ Includes coal, coal coke (net), and electricity (net).

6/ Includes crude oil and petroleum products.

7/ Balancing item. Includes unaccounted for supply, losses, gains, and net storage withdrawals.

**Table 1. Total Energy Supply and Disposition Summary (2 of 2)**  
**(Quadrillion Btu per Year, Unless Otherwise Noted)**

8/ Includes natural gas plant liquids, crude oil consumed as a fuel, and nonpetroleum based liquids for blending, such as ethanol.

9/ Includes net electricity imports, methanol, and liquid hydrogen.

10/ Average refiner acquisition cost for imported crude oil.

11/ Represents lower 48 onshore and offshore supplies.

Btu = British thermal unit.

Mcf = Thousand cubic feet.

N/A = Not applicable.

Note: Totals may not equal sum of components due to independent rounding. Data for 1998 and 1999 are model results and may differ slightly from official EIA data reports.

Sources: 1998 natural gas values: Energy Information Administration (EIA), Natural Gas Annual 1998, DOE/EIA-0131(98) (Washington, DC, October 1999). 1998 coal minemouth prices: EIA, Coal Industry Annual 1998, DOE/EIA-0584(98) (Washington, DC, June 2000). Other 1998 values: EIA, Annual Energy Review 1999, DOE/EIA-0384(99) (Washington, DC, July 2000). 1999 natural gas values: EIA, Natural Gas Monthly, DOE/EIA-0130(2000/06) (Washington, DC, June 2000). 1999 petroleum values: EIA, Petroleum Supply Annual 1999, DOE/EIA-0340(99/1) (Washington, DC, June 2000). Other 1999 values: EIA, Annual Energy Review 1999, DOE/EIA-0384(99) (Washington, DC, July 2000) and EIA, Quarterly Coal Report, DOE/EIA-0121(2000/1Q) (Washington, DC, August 2000). Projections: EIA, AEO2001 National Energy Modeling System run AEO2001.D101600A.





**Table 2. Energy Consumption by Sector and Source (3 of 3)**  
**(Quadrillion Btu per Year, Unless Otherwise Noted)**

Sector and Source	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1999-2020
Total Energy Consumption																								
Distillate Fuel	7.44	7.48	7.73	8.11	8.34	8.52	8.69	8.89	9.10	9.29	9.44	9.57	9.71	9.85	10.00	10.17	10.36	10.54	10.83	10.96	11.08	11.33	11.63	2.1%
Kerosene	0.16	0.15	0.15	0.15	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	-0.7%
Jet Fuel 8/	3.36	3.46	3.54	3.61	3.63	3.73	3.82	3.94	4.05	4.16	4.29	4.41	4.55	4.68	4.82	4.96	5.11	5.27	5.42	5.57	5.72	5.87	6.02	2.7%
Liquefied Petroleum Gas	2.58	2.88	2.95	3.04	3.07	3.11	3.11	3.12	3.13	3.14	3.18	3.20	3.23	3.27	3.31	3.36	3.41	3.48	3.51	3.55	3.62	3.67	3.82	1.4%
Motor Gasoline 2/	15.82	16.17	16.18	16.74	17.23	17.51	17.83	18.17	18.49	18.81	19.10	19.39	19.67	19.92	20.19	20.45	20.73	21.00	21.29	21.55	21.79	22.02	22.25	1.5%
Petrochemical Feedstocks	1.39	1.29	1.31	1.33	1.35	1.38	1.40	1.43	1.46	1.49	1.50	1.52	1.53	1.54	1.56	1.58	1.59	1.61	1.63	1.65	1.66	1.68	1.70	1.3%
Residual Fuel	2.14	2.08	2.17	2.04	1.88	1.86	1.84	1.81	1.82	1.72	1.69	1.76	1.76	1.73	1.73	1.75	1.75	1.78	1.78	1.80	1.79	1.81	1.83	-0.6%
Other Petroleum 12/	4.27	4.53	4.51	4.59	4.65	4.68	4.72	4.75	4.77	4.83	4.89	4.92	4.96	5.01	5.03	5.06	5.10	5.13	5.18	5.20	5.25	5.30	5.36	0.8%
Petroleum Subtotal	37.16	38.03	38.13	39.60	40.31	40.93	41.56	42.24	42.95	43.59	44.21	44.89	45.55	46.13	46.76	47.47	48.19	48.95	49.77	50.41	51.04	51.80	52.74	1.6%
Natural Gas	21.96	21.95	22.55	22.76	23.67	24.47	25.26	25.53	26.05	26.76	27.41	27.94	28.73	29.30	29.96	30.62	31.38	32.14	32.70	33.41	34.09	34.47	34.68	2.2%
Metallurgical Coal	0.76	0.75	0.79	0.77	0.75	0.73	0.71	0.69	0.66	0.64	0.63	0.62	0.61	0.59	0.58	0.57	0.56	0.55	0.54	0.53	0.52	0.51	0.50	-1.9%
Steam Coal	20.79	20.62	21.31	21.91	22.35	22.73	22.98	23.45	23.52	23.63	23.74	23.82	23.91	24.04	24.12	24.24	24.31	24.41	24.47	24.54	24.52	24.60	24.72	0.9%
Net Coal Coke Imports	0.07	0.06	0.07	0.09	0.10	0.10	0.12	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.19	0.20	0.20	0.21	0.22	0.22	0.22	0.6%	
Coal Subtotal	21.61	21.43	22.16	22.76	23.19	23.56	23.79	24.25	24.31	24.40	24.51	24.58	24.67	24.79	24.88	25.00	25.06	25.15	25.20	25.27	25.25	25.33	25.45	0.8%
Nuclear Power	7.19	7.79	7.98	7.86	7.87	7.88	7.89	7.90	7.91	7.88	7.87	7.87	7.69	7.61	7.53	7.29	7.05	6.79	6.61	6.36	6.18	6.17	6.09	-1.2%
Renewable Energy 17/	6.63	6.59	6.43	6.63	6.81	6.90	6.90	7.08	7.20	7.36	7.54	7.58	7.66	7.71	7.77	7.83	7.93	8.00	8.06	8.12	8.21	8.20	8.20	1.0%
Methanol (M85) 11/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.01	0.01	0.01	0.01	6.7%
Liquid Hydrogen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Electricity Imports 16/	0.29	0.34	0.35	0.37	0.52	0.57	0.52	0.55	0.53	0.48	0.41	0.37	0.31	0.31	0.25	0.24	0.22	0.22	0.24	0.24	0.25	0.25	0.22	-2.0%
<b>Total</b>	<b>94.84</b>	<b>96.14</b>	<b>97.62</b>	<b>99.99</b>	<b>102.37</b>	<b>104.32</b>	<b>105.93</b>	<b>107.56</b>	<b>108.96</b>	<b>110.48</b>	<b>111.96</b>	<b>113.23</b>	<b>114.61</b>	<b>115.85</b>	<b>117.16</b>	<b>118.45</b>	<b>119.84</b>	<b>121.26</b>	<b>122.59</b>	<b>123.81</b>	<b>124.93</b>	<b>126.23</b>	<b>127.39</b>	<b>1.3%</b>
<b>Energy Use and Related Statistics</b>																								
Delivered Energy Use	70.51	71.65	72.88	74.71	76.42	77.82	79.03	80.22	81.50	82.77	83.97	85.04	86.22	87.28	88.43	89.55	90.76	91.95	93.19	94.28	95.34	96.43	97.50	1.5%
Total Energy Use	94.84	96.14	97.62	99.99	102.37	104.32	105.93	107.56	108.96	110.48	111.96	113.23	114.61	115.85	117.16	118.45	119.84	121.26	122.59	123.81	124.93	126.23	127.39	1.3%
Population (millions)	270.61	273.13	275.62	278.11	280.62	283.11	285.57	288.02	290.46	292.89	295.31	297.74	300.17	302.61	305.07	307.56	310.07	312.58	315.11	317.64	320.18	322.71	325.24	0.8%
US GDP (billion 1996 dollars)	8516	8876	9338	9712	10060	10366	10660	10976	11286	11617	11964	12316	12686	13057	13453	13853	14266	14674	15069	15457	15823	16190	16565	3.0%
Carbon Dioxide Emissions (Mmtce)	1495.4	1510.8	1535.3	1581.3	1617.9	1648.4	1676.7	1704.5	1726.0	1749.4	1772.7	1793.7	1819.0	1840.5	1863.4	1888.5	1913.6	1939.8	1964.1	1987.1	2007.2	2028.1	2050.9	1.5%

1/ Includes wood used for residential heating. See Table 18 for estimates of nonmarketed renewable energy consumption for geothermal heat pumps, solar thermal hot water heating, and solar photovoltaic electricity generation.

2/ Includes ethanol (blend of 10 percent or less) and ethers blended into gasoline.

3/ Includes commercial sector electricity cogenerated by using wood and wood waste, landfill gas, municipal solid waste, and other biomass. See Table 18 for estimates of nonmarketed renewable energy consumption for solar thermal hot water heating and solar photovoltaic electricity generation.

4/ Fuel consumption includes consumption for cogeneration, which produces electricity and other useful thermal energy.

5/ Includes petroleum coke, asphalt, road oil, lubricants, still gas, and miscellaneous petroleum products.

6/ Includes lease and plant fuel and consumption by cogenerators; excludes consumption by nonutility generators.

7/ Includes consumption of energy from hydroelectric, wood and wood waste, municipal solid waste, and other biomass; includes cogeneration, both for sale to the grid and for own use.

8/ Includes only kerosene type.

9/ Includes aviation gas and lubricants.

10/ E85 is 85 percent ethanol (renewable) and 15 percent motor gasoline (nonrenewable).

11/ M85 is 85 percent methanol and 15 percent motor gasoline.

12/ Includes unfinished oils, natural gasoline, motor gasoline blending compounds, aviation gasoline, lubricants, still gas, asphalt, road oil, petroleum coke, and miscellaneous petroleum products.

13/ Includes electricity generated for sale to the grid and for own use from renewable sources, and non-electric energy from renewable sources. Excludes nonmarketed renewable energy consumption for geothermal heat pumps, buildings photovoltaic systems, and solar thermal hot water heaters.

14/ Includes consumption of energy by all electric power generators for grid-connected power except cogenerators, which produce electricity and other useful thermal energy. Includes small power producers and exempt wholesale generators.

15/ Includes conventional hydroelectric, geothermal, wood and wood waste, municipal solid waste, other biomass, petroleum coke, wind, photovoltaic and solar thermal sources. Excludes cogeneration. Excludes net electricity imports.

16/ In 1998 approximately 70 percent of the U.S. electricity imports were provided by renewable sources (hydroelectricity); EIA does not project future proportions for the fuel source of imported electricity.

17/ Includes hydroelectric, geothermal, wood and wood waste, municipal solid waste, other biomass, wind, photovoltaic and solar thermal sources. Includes ethanol components of E85; excludes ethanol blends (10 percent or less) in motor gasoline. Excludes net electricity imports and nonmarketed renewable energy consumption for geothermal heat pumps, buildings photovoltaic systems, and solar thermal hot water heaters.

Btu = British thermal unit.

Mmtce = Million metric tons carbon equivalent

N/A = Not applicable.

Note: Totals may not equal sum of components due to independent rounding. Data for 1998 and 1999 are model results and may differ slightly from official EIA data reports. Consumption values of 0.00 are values that round to 0.00, because they are less than 0.005.

Sources: 1998 natural gas lease, plant, and pipeline fuel values: Energy Information Administration (EIA), Natural Gas Annual 1998, DOE/EIA-0131(98) (Washington, DC, October 1999). 1998 and 1999 electric utility fuel

consumption: EIA, Electric Power Annual 1998, Volume I, DOE/EIA-0348(98)/1 (Washington, DC, April 1999). 1998 and 1999 nonutility consumption estimates: EIA, Form EIA-860B, "Annual Electric Generator Report - Nonutility."

Other 1998 values: EIA, AEO2001 National Energy Modeling System run AEO2001.D101600A. Other 1999 values: EIA, Short-Term Energy Outlook, September 2000, <http://www.eia.doe.gov/pub/forecasting/steo/oldsteos/sep00.pdf>.

Projections: EIA, AEO2001 National Energy Modeling System run AEO2001.D101600A.



**Table 3. Energy Prices by Sector and Source (2 of 2)**  
**(1999 Dollars per Million Btu, Unless Otherwise Noted)**

Sector and Source	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1999-
Average Price to All Users 14/	6.81	7.44	9.55	8.31	7.56	7.31	7.28	7.16	7.31	7.31	7.30	7.25	7.24	7.14	7.14	7.19	7.19	7.08	7.05	7.05	7.03	7.01	-0.3%	
Petroleum Products 2/	6.68	7.27	9.61	7.88	7.32	7.09	7.06	6.99	7.06	7.03	7.00	6.97	6.99	6.95	6.94	6.95	6.94	6.85	6.86	6.89	6.91	6.87	-0.3%	
Distillate Fuel	4.13	4.70	6.57	4.99	4.42	4.23	4.21	4.18	4.29	4.30	4.35	4.36	4.33	4.34	4.36	4.46	4.46	4.40	4.40	4.43	4.47	4.47	-0.2%	
Jet Fuel	7.87	8.84	9.13	9.17	8.10	7.69	7.57	7.49	7.51	7.52	7.51	7.33	7.24	7.33	7.27	7.29	7.29	7.34	7.32	7.42	7.41	7.39	-0.8%	
Liquefied Petroleum Gas	8.74	9.45	11.96	10.68	9.69	9.43	9.41	9.20	9.46	9.44	9.44	9.41	9.38	9.36	9.12	9.17	9.25	9.26	9.07	9.00	8.86	8.88	8.87	-0.3%
Residual Fuel	2.29	2.48	3.93	3.28	2.75	2.52	2.45	2.40	2.38	2.39	2.38	2.36	2.36	2.35	2.35	2.35	2.35	2.35	2.35	2.35	2.35	2.35	2.36	-0.2%
Natural Gas	4.02	4.05	5.02	5.19	4.64	4.32	4.17	4.17	4.17	4.18	4.18	4.17	4.17	4.17	4.16	4.16	4.16	4.17	4.18	4.21	4.24	4.29	4.33	0.3%
Coal	1.29	1.23	1.22	1.20	1.19	1.17	1.16	1.14	1.13	1.11	1.10	1.08	1.07	1.06	1.05	1.04	1.04	1.03	1.02	1.01	1.01	1.00	0.99	-1.0%
Ethanol (E85) 11/	14.25	14.42	16.92	17.92	16.48	18.47	18.45	18.43	18.40	18.28	18.25	18.16	18.24	18.28	18.27	18.33	18.41	18.47	18.10	18.18	18.19	18.24	18.32	1.1%
Methanol (M85) 12/	8.93	10.36	13.45	13.80	12.72	12.01	11.80	12.03	12.15	11.90	11.98	12.18	12.23	12.21	12.15	12.14	12.09	12.13	12.01	11.98	11.96	11.97	11.94	0.7%
Electricity	20.03	19.50	19.93	19.69	18.98	18.64	18.56	18.01	17.87	17.62	17.39	17.30	17.34	17.25	17.21	17.23	17.28	17.35	17.35	17.39	17.35	17.35	-0.6%	
Non-Renewable Energy Expenditures by Sector (billion 1999 dollars)																								
Residential	134.68	134.60	144.04	148.38	144.62	144.00	145.75	145.91	148.63	150.53	152.63	154.19	156.73	158.18	160.45	162.03	164.49	166.95	169.49	171.33	173.68	175.89	178.74	1.4%
Commercial	100.85	99.50	107.08	109.89	107.84	107.20	108.10	107.11	107.58	107.78	108.06	109.39	111.41	112.70	114.23	116.07	118.03	119.90	121.35	122.99	124.23	125.25	126.41	1.1%
Industrial	104.61	110.90	132.12	126.37	117.31	113.34	112.57	111.76	112.70	113.71	114.22	114.91	116.10	116.63	118.08	119.43	121.60	124.05	125.91	128.09	130.58	132.95	135.73	1.0%
Transportation	191.50	212.63	276.81	248.75	232.94	230.59	234.61	235.17	245.73	249.83	254.16	257.96	261.28	264.87	263.76	268.87	275.50	279.86	279.47	282.06	285.12	287.77	291.23	1.5%
Total Non-Renewable Expenditures	531.64	557.64	660.05	633.38	602.71	595.14	601.04	599.95	614.64	621.85	629.07	636.45	645.51	652.38	656.52	666.40	679.62	690.77	696.22	704.47	713.62	721.86	732.11	1.3%
Expenditures	0.09	0.14	0.26	0.24	0.26	0.30	0.34	0.38	0.42	0.46	0.49	0.52	0.55	0.58	0.60	0.63	0.66	0.69	0.70	0.72	0.74	0.76	0.78	8.5%
Total Expenditures	531.73	557.78	660.31	633.61	602.97	595.44	601.38	600.33	615.06	622.31	629.56	636.97	646.07	652.97	657.12	667.03	680.28	691.46	696.91	705.19	714.35	722.61	732.89	1.3%

1/ Weighted average price includes fuels below as well as coal.

2/ This quantity is the weighted average for all petroleum products, not just those listed below.

3/ Excludes independent power producers.

4/ Includes cogenerators.

5/ Excludes uses for lease and plant fuel.

6/ Low sulfur diesel fuel. Price includes Federal and State taxes while excluding county and local taxes.

7/ Kerosene-type jet fuel. Price includes Federal and State taxes while excluding county and local taxes.

8/ Sales weighted-average price for all grades. Includes Federal and State taxes and excludes county and local taxes.

9/ Includes Federal and State taxes while excluding county and local taxes.

10/ Compressed natural gas used as a vehicle fuel. Price includes estimated motor vehicle fuel taxes.

11/ E85 is 85 percent ethanol (renewable) and 15 percent motor gasoline (nonrenewable).

12/ M85 is 85 percent methanol and 15 percent motor gasoline.

13/ Includes all electric power generators except cogenerators, which produce electricity and other useful thermal energy. Includes small power producers and exempt wholesale generators.

14/ Weighted averages of end-use fuel prices are derived from the prices shown in each sector and the corresponding sectoral consumption.

Btu = British thermal unit.

Note: Data for 1998 and 1999 are model results and may differ slightly from official EIA data reports.

Sources: 1998 prices for gasoline, distillate, and jet fuel are based on prices in the Energy Information Administration (EIA), Petroleum Marketing Annual 1998,

[ftp://ftp.eia.doe.gov/pub/oil\\_gas/petroleum/data\\_publications/petroleum\\_marketing\\_annual/historical/1998/pdf/pmaall.pdf](http://ftp.eia.doe.gov/pub/oil_gas/petroleum/data_publications/petroleum_marketing_annual/historical/1998/pdf/pmaall.pdf) (October 1999). 1999 prices for gasoline, distillate, and jet fuel are based on prices in various issues of EIA,

Petroleum Marketing Monthly, DOE/EIA-0380(99/03-2000/04) (Washington, DC, 1999-2000). 1998 and 1999 prices for all other petroleum products are derived from the EIA, State Energy Price and Expenditure Report 1997,

DOE/EIA-0376(97) (Washington, DC, July 2000). 1998 residential, commercial, and transportation natural gas delivered prices: EIA, Natural Gas Annual 1998, DOE/EIA-0131(98) (Washington, DC, October 1999). 1998 electric

generators natural gas delivered prices: FERC-FERC-423, "Monthly Report of Cost and Quality of Fuels for Electric Plants." 1998 and 1999 industrial gas delivered prices are based on EIA, Manufacturing Energy Consumption Survey

1994, 1999 residential and commercial natural gas delivered prices: EIA, Natural Gas Monthly, DOE/EIA-0130(2000/06) (Washington, DC, June 2000). 1999 and 1999 coal prices based on EIA, Quarterly Coal Report,

DOE/EIA-0121(2000/1Q) (Washington, DC, August 2000) and EIA, AEO2000 National Energy Modeling System run AEO2001.D101600A. 1998 residential electricity prices derived from EIA, Short-Term Energy Outlook, September

2000, <http://www.eia.doe.gov/pub/forecasting/steo/oldsteos/sep00.pdf>. 1998 and 1999 electricity prices for commercial, industrial, and transportation: EIA, AEO2001 National Energy Modeling System run AEO2001.D101600A.

Projections: EIA, AEO2001 National Energy Modeling System run AEO2001.D101600A.



**Table 4. Residential Sector Key Indicators and Consumption (2 of 2)**  
 (Quadrillion Btu per Year, Unless Otherwise Noted)

Key Indicators and Consumption	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1999-2020	
Marketed Renewables (wood) 5/	0.39	0.41	0.39	0.43	0.43	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.45	0.45	0.45	0.45	0.45	0.45	0.46	0.6%	
Other Fuels 6/	0.15	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.12	0.12	0.12	0.12	0.12	0.12	0.12	-0.7%	
Use																									
Space Heating	4.90	5.18	5.24	5.62	5.72	5.79	5.84	5.84	5.86	5.87	5.90	5.90	5.92	5.96	6.02	6.04	6.09	6.13	6.20	6.23	6.28	6.34	6.42	1.0%	
Space Cooling	0.56	0.52	0.52	0.51	0.53	0.54	0.55	0.57	0.58	0.59	0.60	0.61	0.63	0.64	0.65	0.67	0.68	0.70	0.71	0.73	0.74	0.76	0.78	1.9%	
Water Heating	1.87	1.89	1.92	1.91	1.95	1.98	2.00	2.01	2.02	2.03	2.05	2.05	2.07	2.08	2.10	2.11	2.12	2.14	2.15	2.16	2.17	0.7%			
Refrigeration	0.44	0.43	0.41	0.41	0.40	0.39	0.38	0.37	0.37	0.36	0.35	0.35	0.34	0.34	0.33	0.33	0.32	0.32	0.32	0.32	0.32	0.32	0.33	-1.3%	
Cooking	0.32	0.32	0.33	0.34	0.34	0.35	0.35	0.36	0.36	0.36	0.37	0.37	0.38	0.38	0.39	0.39	0.40	0.40	0.40	0.41	0.41	0.41	0.42	1.3%	
Clothes Dryers	0.28	0.28	0.28	0.29	0.30	0.30	0.31	0.32	0.32	0.33	0.34	0.34	0.35	0.35	0.36	0.37	0.37	0.38	0.38	0.39	0.39	0.40	0.40	1.7%	
Freezers	0.12	0.12	0.11	0.11	0.10	0.10	0.10	0.10	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	-1.4%	
Lighting	0.33	0.34	0.34	0.35	0.37	0.36	0.39	0.41	0.42	0.43	0.44	0.45	0.46	0.47	0.47	0.48	0.48	0.49	0.50	0.50	0.51	0.51	0.52	2.1%	
Clothes Washers	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	1.3%	
Dishwashers	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.03	1.2%	
Color Televisions	0.12	0.12	0.12	0.13	0.14	0.15	0.15	0.16	0.17	0.17	0.18	0.18	0.19	0.19	0.20	0.20	0.21	0.21	0.22	0.22	0.23	0.23	0.24	3.3%	
Personal Computers	0.05	0.06	0.07	0.07	0.08	0.08	0.09	0.09	0.09	0.09	0.09	0.09	0.10	0.10	0.10	0.10	0.11	0.11	0.11	0.11	0.11	0.11	0.11	2.8%	
Furnace Fans	0.07	0.07	0.07	0.08	0.08	0.08	0.08	0.09	0.09	0.09	0.10	0.10	0.10	0.10	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.12	2.1%		
Other Uses 7/	1.14	1.23	1.31	1.35	1.41	1.47	1.53	1.58	1.63	1.68	1.74	1.79	1.85	1.90	1.95	2.00	2.05	2.10	2.15	2.18	2.23	2.27	2.33	3.1%	
Delivered Energy	10.26	10.62	10.79	11.21	11.46	11.66	11.84	11.95	12.05	12.16	12.31	12.40	12.52	12.65	12.82	12.92	13.06	13.20	13.39	13.49	13.64	13.79	13.98	1.3%	
Electricity Related Losses	8.43	8.48	8.53	8.74	8.98	9.21	9.42	9.59	9.61	9.69	9.81	9.88	9.97	10.03	10.10	10.14	10.21	10.30	10.37	10.41	10.45	10.54	10.62	1.1%	
Total Energy Consumption by End-Use																									
Space Heating	5.71	6.01	6.05	6.50	6.62	6.70	6.77	6.78	6.79	6.80	6.83	6.83	6.85	6.89	6.94	6.97	7.01	7.06	7.12	7.15	7.20	7.26	7.34	1.0%	
Space Cooling	1.79	1.64	1.64	1.62	1.66	1.70	1.74	1.77	1.78	1.81	1.84	1.86	1.89	1.91	1.94	1.97	2.00	2.03	2.06	2.09	2.12	2.16	2.19	1.4%	
Water Heating	2.74	2.75	2.76	2.75	2.80	2.85	2.88	2.89	2.89	2.90	2.92	2.92	2.93	2.93	2.95	2.94	2.95	2.95	2.96	2.95	2.95	2.95	2.96	0.4%	
Refrigeration	1.41	1.35	1.30	1.28	1.25	1.22	1.20	1.17	1.13	1.11	1.08	1.06	1.03	1.01	0.99	0.97	0.96	0.95	0.94	0.93	0.92	0.92	0.92	-1.8%	
Cooking	0.54	0.54	0.55	0.56	0.57	0.58	0.59	0.59	0.60	0.60	0.61	0.61	0.62	0.62	0.63	0.63	0.64	0.64	0.65	0.65	0.66	0.66	0.9%		
Clothes Dryers	0.75	0.75	0.75	0.76	0.78	0.80	0.81	0.83	0.83	0.84	0.85	0.86	0.87	0.87	0.88	0.89	0.89	0.90	0.91	0.92	0.92	0.93	1.0%		
Freezers	0.39	0.37	0.35	0.34	0.33	0.32	0.31	0.30	0.29	0.28	0.28	0.27	0.27	0.26	0.26	0.26	0.25	0.25	0.25	0.25	0.25	0.25	-1.9%		
Lighting	1.06	1.08	1.07	1.11	1.16	1.20	1.24	1.28	1.29	1.32	1.35	1.37	1.39	1.40	1.41	1.42	1.42	1.43	1.44	1.45	1.46	1.47	1.5%		
Clothes Washers	0.09	0.09	0.09	0.09	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.7%		
Dishwashers	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.7%		
Color Televisions	0.37	0.38	0.39	0.41	0.43	0.46	0.49	0.51	0.52	0.53	0.55	0.56	0.57	0.58	0.59	0.60	0.61	0.62	0.64	0.65	0.66	0.68	2.7%		
Personal Computers	0.17	0.20	0.21	0.22	0.24	0.26	0.28	0.29	0.29	0.29	0.28	0.28	0.28	0.29	0.29	0.29	0.29	0.29	0.30	0.30	0.31	0.32	0.32	2.3%	
Furnace Fans	0.23	0.24	0.24	0.24	0.25	0.26	0.27	0.27	0.27	0.28	0.28	0.29	0.29	0.30	0.30	0.31	0.31	0.32	0.32	0.32	0.32	0.33	1.6%		
Other Uses 7/	3.37	3.62	3.85	4.00	4.18	4.36	4.54	4.69	4.79	4.92	5.07	5.20	5.33	5.44	5.56	5.65	5.77	5.89	5.99	6.07	6.15	6.25	6.36	2.7%	
Total	18.70	19.10	19.32	19.95	20.45	20.87	21.27	21.54	21.66	21.84	22.12	22.28	22.49	22.67	22.92	23.07	23.27	23.50	23.75	23.90	24.08	24.33	24.60	1.2%	
Non-Marketed Renewables																									
Geothermal 8/	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	2.7%	
Solar 9/	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.5%	
Total	0.02	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	2.3%	

1/ Does not include electric water heating portion of load.

2/ Includes small electric devices, heating elements, and motors.

3/ Includes such appliances as swimming pool heaters, outdoor grills, and outdoor lighting (natural gas).

4/ Includes such appliances as swimming pool and hot tub heaters.

5/ Includes wood used for primary and secondary heating in wood stoves or fireplaces as reported in the Residential Energy Consumption Survey 1997.

6/ Includes kerosene and coal.

7/ Includes all other uses listed above.

8/ Includes primary energy displaced by geothermal heat pumps in space heating and cooling applications.

9/ Includes primary energy displaced by solar thermal water heaters and electricity generated using photovoltaics.

Btu = British thermal unit.

N/A = Not applicable.

Note: Totals may not equal sum of components due to independent rounding. Data for 1998 and 1999 are model results and may differ slightly from official EIA data reports.

Source: 1998 and 1999: Energy Information Administration (EIA), Short-Term Energy Outlook, September 2000, <http://www.eia.doe.gov/pub/forecasting/steo/oldsteos/sep00.pdf>. Projections: EIA, AEO2001 National Energy Modeling System run AEO2001.D101600A.

**Table 5. Commercial Sector Key Indicators and Consumption (1 of 2)**  
**(Quadrillion Btu per year, Unless otherwise noted)**

**Table 5. Commercial Sector Key Indicators and Consumption (2 of 2)**  
**(Quadrillion Btu per year, Unless otherwise noted)**

Key Indicators and Consumption	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1999-2020
Use																								
Space Heating 1/	1.69	1.79	1.76	1.94	2.02	2.07	2.09	2.11	2.13	2.14	2.16	2.17	2.18	2.20	2.22	2.23	2.24	2.25	2.26	2.26	2.27	2.27	2.26	1.1%
Space Cooling 1/	0.47	0.44	0.44	0.44	0.45	0.45	0.46	0.46	0.47	0.47	0.47	0.48	0.48	0.48	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.5%
Water Heating 1/	0.86	0.87	0.86	0.88	0.91	0.94	0.95	0.97	0.98	0.99	1.00	1.01	1.02	1.03	1.05	1.06	1.07	1.07	1.08	1.09	1.09	1.09	1.10	1.1%
Ventilation	0.17	0.17	0.18	0.18	0.18	0.19	0.19	0.19	0.20	0.20	0.20	0.20	0.20	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.9%
Cooking	0.23	0.24	0.24	0.24	0.25	0.26	0.26	0.26	0.27	0.27	0.27	0.28	0.28	0.28	0.29	0.29	0.30	0.30	0.30	0.30	0.30	0.30	0.30	1.1%
Lighting	1.19	1.21	1.22	1.24	1.27	1.29	1.31	1.33	1.35	1.37	1.39	1.41	1.42	1.44	1.45	1.46	1.47	1.48	1.48	1.48	1.48	1.48	1.48	1.0%
Refrigeration	0.18	0.18	0.19	0.19	0.19	0.20	0.20	0.20	0.20	0.21	0.21	0.21	0.21	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	1.0%
Office Equipment (PC)	0.09	0.10	0.11	0.12	0.14	0.15	0.16	0.18	0.19	0.20	0.22	0.23	0.24	0.25	0.26	0.26	0.27	0.28	0.28	0.29	0.29	0.29	0.29	5.1%
Office Equipment (non-PC)	0.28	0.30	0.31	0.34	0.36	0.38	0.39	0.41	0.43	0.45	0.47	0.49	0.51	0.53	0.55	0.57	0.58	0.60	0.62	0.64	0.65	0.67	0.69	4.1%
Other Uses 7/	2.38	2.29	2.48	2.52	2.61	2.69	2.75	2.80	2.86	2.92	2.97	3.03	3.08	3.14	3.20	3.25	3.31	3.36	3.41	3.47	3.51	3.56	3.60	2.2%
Delivered Energy	7.54	7.59	7.79	8.09	8.38	8.60	8.76	8.92	9.07	9.21	9.36	9.50	9.64	9.78	9.92	10.04	10.16	10.26	10.36	10.45	10.52	10.59	10.65	1.6%
Electricity Related Losses	7.99	8.01	8.16	8.41	8.68	8.91	9.09	9.28	9.37	9.50	9.62	9.74	9.83	9.93	10.00	10.08	10.15	10.21	10.22	10.26	10.25	10.29	10.27	1.2%
Total Energy Consumption by End-Use																								
Space Heating 1/	1.98	2.09	2.05	2.27	2.35	2.40	2.43	2.45	2.46	2.48	2.49	2.50	2.51	2.53	2.54	2.55	2.56	2.57	2.57	2.57	2.56	2.56	2.56	1.0%
Space Cooling 1/	1.47	1.36	1.37	1.35	1.37	1.38	1.39	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.39	1.39	1.38	1.38	1.37	1.36	1.35	1.35	1.34	-0.1%
Water Heating 1/	1.17	1.19	1.18	1.19	1.23	1.26	1.28	1.29	1.30	1.32	1.33	1.34	1.34	1.35	1.36	1.37	1.38	1.38	1.38	1.39	1.39	1.39	1.38	0.7%
Ventilation	0.55	0.55	0.55	0.56	0.58	0.59	0.60	0.60	0.61	0.61	0.61	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.61	0.61	0.61	0.60	0.59	0.4%
Cooking	0.30	0.31	0.31	0.31	0.32	0.32	0.33	0.33	0.33	0.34	0.34	0.34	0.34	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.7%
Lighting	3.79	3.83	3.85	3.92	4.01	4.08	4.11	4.17	4.18	4.21	4.25	4.27	4.29	4.31	4.32	4.33	4.33	4.32	4.29	4.27	4.24	4.22	4.18	0.4%
Refrigeration	0.57	0.58	0.59	0.60	0.61	0.62	0.63	0.63	0.63	0.64	0.64	0.64	0.64	0.65	0.65	0.65	0.65	0.65	0.64	0.64	0.64	0.64	0.64	0.4%
Office Equipment (PC)	0.30	0.33	0.36	0.39	0.43	0.47	0.51	0.56	0.59	0.63	0.66	0.69	0.72	0.74	0.76	0.78	0.80	0.82	0.83	0.83	0.83	0.83	0.83	4.5%
Office Equipment (non-PC)	0.89	0.94	0.99	1.06	1.13	1.18	1.24	1.29	1.34	1.39	1.44	1.49	1.53	1.59	1.63	1.67	1.71	1.76	1.79	1.83	1.87	1.92	1.95	3.6%
Other Uses 7/	4.51	4.43	4.71	4.85	5.03	5.20	5.34	5.48	5.59	5.71	5.83	5.96	6.07	6.19	6.31	6.43	6.53	6.65	6.74	6.85	6.93	7.02	7.09	2.3%
Total	15.52	15.61	15.94	16.50	17.06	17.51	17.85	18.20	18.44	18.71	18.99	19.24	19.46	19.71	19.92	20.13	20.31	20.47	20.58	20.70	20.78	20.88	20.92	1.4%
Non-Marketed Renewable Fuels																								
Solar 8/	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	1.5%
Total	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	1.5%

1/ Includes fuel consumption for district services.

2/ Includes miscellaneous uses, such as service station equipment, automated teller machines, telecommunications equipment, and medical equipment.

3/ Excludes estimated consumption from independent power producers.

4/ Includes miscellaneous uses, such as pumps, emergency electric generators, cogeneration in commercial buildings, and manufacturing performed in commercial buildings.

5/ Includes miscellaneous uses, such as cooking, emergency electric generators, and cogeneration in commercial buildings.

6/ Includes residual fuel oil, liquefied petroleum gas, coal, motor gasoline, and kerosene.

7/ Includes miscellaneous uses, such as service station equipment, automated teller machines, telecommunications equipment, medical equipment, pumps, lighting, emergency electric generators, cogeneration in commercial buildings, manufacturing performed in commercial buildings, and cooking (distillate), plus residual fuel oil, liquefied petroleum gas, coal, motor gasoline, and kerosene.

8/ Includes primary energy displaced by solar thermal space heating and water heating, and electricity generation by solar photovoltaic systems.

Btu = British thermal unit.

PC = Personal computer.

N/A = Not applicable.

Note: Totals may not equal sum of components due to independent rounding. Data for 1998 and 1999 are model results and may differ slightly from official EIA data reports.

Sources: 1998 and 1999 Energy Information Administration (EIA), Short-Term Energy Outlook, September 2000, <http://www.eia.doe.gov/pub/forecasting/steo/oldsteo/sep00.pdf>. Projections: EIA, AEO2001 National Energy Modeling System run AEO2001.D101600A.



**Table 6. Industrial Sector Key Indicators and Consumption (2 of 2)**  
**(Quadrillion Btu per year, Unless otherwise noted)**

Sources: 1998 prices for gasoline and distillate are based on prices in the Energy Information Administration (EIA), Petroleum Marketing Annual 1998, [ftp://ftp.eia.doe.gov/pub/oil\\_gas/petroleum/data\\_publications/petroleum\\_marketing\\_annual/historical/1998/pdf/pmaall.pdf](ftp://ftp.eia.doe.gov/pub/oil_gas/petroleum/data_publications/petroleum_marketing_annual/historical/1998/pdf/pmaall.pdf) (October 1999). 1999 prices for gasoline and distillate are based on prices in various issues of EIA, Petroleum Marketing Monthly, DOE/EIA-0380(99/03-2000/04) (Washington, DC, 1999-2000). 1998 and 1999 coal prices based on EIA, Quarterly Coal Report, DOE/EIA-0121(2000/1Q) (Washington, DC, August 2000) and EIA, AEO2001 National Energy Modeling System run AEO2001.D101600A. 1998 and 1999 electricity prices: EIA, AEO2001 National Energy Modeling System run AEO2001.D101600A. Other 1998 values and other 1999 prices derived from EIA, State Energy Data Report 1997, DOE/EIA-0214(97) (Washington, DC, September 1999). Other 1999 values: EIA, Short-Term Energy Outlook, September 2000, <http://www.eia.doe.gov/pub/forecasting/steo/oldsteos/sep00.pdf>. Projections: EIA, AEO2001 National Energy Modeling System run AEO2001.D101600A.



**Table 7. Transportation Sector Key Indicators and Delivered Energy Consumption (2 of 2)**

Lbs. = Pounds.

MPG = Miles per gallon.

Note: Totals may not equal sum of components due to independent rounding. Data for 1998 and 1999 are model results and may differ slightly from official EIA data reports.

Sources: 1998: Energy Information Administration (EIA) Natural Gas Annual 1998, DOE/EIA-0131(98) (Washington, DC, October 1999); Federal Highway Administration, Highway Statistics 1998 (Washington, DC, November 1999); Oak Ridge National Laboratory, Transportation Energy Data Book: 12, 13, 14, 15, 16, 17, 18, and 19 (Oak Ridge, TN, September 1999); National Highway Traffic and Safety Administration, Summary of Fuel Economy Performance (Washington, DC, February 2000); EIA, Household Vehicle Energy Consumption 1994, DOE/EIA-0464(94) (Washington, DC, August 1997); U.S. Dept. of Commerce, Bureau of the Census, "Vehicle Inventory and Use Survey," EC97TV (Washington, DC, October 1999); EIA, Describing Current and Potential Markets for Alternative-Fuel Vehicles, DOE/EIA-0604(96) (Washington, DC, March 1996); EIA, Alternatives To Traditional Transportation Fuels 1998, [http://www.eia.doe.gov/cneaf/alt\\_trans98/table1.html](http://www.eia.doe.gov/cneaf/alt_trans98/table1.html); and EIA, State Energy Data Report 1997, DOE/EIA-0214(97) (Washington, DC, September 1999). 1999: U.S. Department of Transportation, Research and Special Programs Administration, Air Carrier Statistics Monthly, December 1999/1998 (Washington, DC, 1999); EIA, Short-Term Energy Outlook, September 2000, <http://www.eia.doe.gov/pub/forecasting/steo/oldsteos/sep00.pdf>; EIA, Fuel Oil and Kerosene Sales 1998, DOE/EIA-0535(98) (Washington, DC, August 1999); and United States Department of Defense, Defense Fuel Supply Center. Projections: EIA, AEO2001 National Energy Modeling System run AEO2001.D101600A.

**Table 8. Electricity Supply, Disposition, Prices, and Emissions (1 of 2)**  
 (Billion Kilowatthours, Unless Otherwise Noted)

Supply, Disposition, and Prices	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1999-2020	
<b>Generation by Fuel Type</b>																									
Electric Generators 1/																									
Coal	1826	1833	1894	1949	1993	2027	2045	2089	2095	2105	2117	2124	2132	2144	2153	2164	2170	2178	2183	2189	2187	2195	2206	0.9%	
Petroleum	115	100	68	89	80	75	72	66	60	60	57	54	55	52	55	61	64	70	88	88	85	103	127	1.1%	
Natural Gas 2/	346	371	387	389	424	463	515	546	614	681	756	825	913	974	1038	1112	1194	1275	1331	1407	1488	1527	1564	7.1%	
Nuclear Power	674	730	748	736	737	738	739	740	741	738	737	737	720	713	706	683	660	635	619	596	579	578	571	-1.2%	
Pumped Storage	-2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	N/A	
Renewable Sources 3/	359	353	335	345	357	356	365	368	375	379	382	383	385	387	388	387	388	389	390	390	391	391	391	0.5%	
Total	3317	3386	3431	3508	3589	3657	3727	3805	3878	3959	4044	4121	4202	4268	4338	4406	4474	4546	4608	4668	4729	4793	4858	1.7%	
Non-Utility Generation for Own Use	16	16	16	16	17	16	16	17	17	16	16	16	16	16	16	16	16	16	16	16	16	16	16	0.0%	
Distributed Generation	0	0	0	0	0	0	0	1	1	2	2	3	3	3	3	4	4	4	5	5	6	6	6	N/A	
<b>Cogenerators 4/</b>																									
Coal	52	47	47	48	48	51	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	0.5%	
Petroleum	15	9	9	11	11	10	10	10	10	10	10	10	10	10	10	10	11	11	11	11	11	11	11	0.9%	
Natural Gas	197	206	211	219	221	227	233	238	242	246	250	254	258	262	266	271	275	280	285	290	296	300	305	1.9%	
Other Gaseous Fuels 5/	8	4	4	6	6	6	6	6	7	7	7	7	7	8	8	8	8	8	8	8	9	9	9	3.7%	
Renewable Sources 3/	31	31	31	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	45	46	47	48	48	2.1%	
Other 6/	8	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	6	6	6	6	0.4%	
Total	310	302	308	320	322	332	340	346	352	357	362	367	372	377	383	389	394	401	406	412	419	424	431	1.7%	
Other End-Use Generators 7/	6	5	4	4	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	0.6%	
Sales to Utilities	158	151	155	160	162	167	169	171	172	173	174	176	178	180	183	185	188	191	193	196	199	202	205	1.5%	
Generation for Own Use	158	156	157	165	165	170	175	180	185	189	193	196	199	202	205	209	211	215	218	221	225	228	231	1.9%	
Net Imports 8/	27	32	33	35	49	54	49	52	50	45	39	35	29	29	24	23	21	21	22	23	23	24	21	-2.0%	
<b>Electricity Sales by Sector</b>																									
Residential	1128	1146	1159	1189	1224	1255	1289	1318	1340	1365	1397	1422	1450	1473	1501	1521	1546	1571	1601	1620	1645	1672	1703	1.9%	
Commercial	1068	1083	1109	1145	1182	1214	1243	1276	1306	1338	1371	1401	1430	1459	1487	1513	1537	1558	1579	1597	1615	1632	1647	2.0%	
Industrial	1040	1063	1078	1089	1109	1120	1124	1138	1165	1171	1187	1199	1216	1229	1244	1261	1279	1299	1317	1335	1353	1375	1396	1.3%	
Transportation	17	17	18	18	19	21	24	26	28	30	31	33	35	36	38	40	41	43	44	46	47	48	49	5.1%	
Total	3253	3309	3364	3441	3534	3611	3680	3757	3829	3904	3986	4056	4130	4198	4269	4334	4404	4471	4541	4598	4660	4726	4794	1.8%	
End-Use Prices (1999 cents per kilowatthour) 9/																									
Residential	8.3	8.1	8.1	8.0	7.7	7.6	7.6	7.4	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	-0.3%	
Commercial	7.6	7.3	7.6	7.5	7.1	7.0	6.9	6.6	6.5	6.3	6.1	6.1	6.1	6.0	6.0	6.0	6.0	6.1	6.1	6.1	6.1	6.1	6.1	-0.9%	
Industrial	4.6	4.5	4.7	4.6	4.4	4.3	4.3	4.2	4.1	4.0	3.9	3.9	3.9	3.8	3.8	3.8	3.9	3.9	3.9	3.9	3.9	3.9	3.9	-0.6%	
Transportation	5.4	5.3	5.5	5.3	5.2	5.1	5.0	4.9	4.9	4.8	4.7	4.7	4.7	4.6	4.6	4.6	4.6	4.6	4.5	4.5	4.5	4.5	4.5	-0.8%	
All Sectors Average	6.8	6.7	6.8	6.7	6.5	6.4	6.3	6.1	6.1	6.0	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	-0.6%	
<b>Prices by Service Category</b>																									
(1999 cents per kilowatthour)																									
Generation	4.3	4.1	4.2	4.1	3.9	3.8	3.8	3.6	3.5	3.4	3.3	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.3	3.3	3.3	3.3	-1.0%	
Transmission	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7%	
Distribution	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	0.0%	
Emissions (million short tons)																									
Sulfur Dioxide	13.13	12.46	11.43	11.39	11.39	10.92	10.09	10.10	9.73	9.59	9.48	9.48	9.20	9.12	9.13	9.17	9.12	9.15	9.19	9.23	9.49	9.52	8.95	-1.6%	
Nitrogen Oxide	5.83	5.45	4.57	4.71	4.83	4.44	4.26	4.30	4.27	4.27	4.26	4.27	4.29	4.31	4.31	4.34	4.36	4.38	4.39	4.41	4.42	4.42	4.44	-1.0%	

1/ Includes grid-connected generation at all utilities and nonutilities except for cogenerators. Includes small power producers and exempt wholesale generators.

2/ Includes electricity generation by fuel cells.

3/ Includes conventional hydroelectric, geothermal, wood, wood waste, municipal solid waste, landfill gas, other biomass, solar, and wind power.

4/ Cogenerators produce electricity and other useful thermal energy. Includes sales to utilities and generation for own use.

5/ Other gaseous fuels include refinery and still gas.

**Table 8. Electricity Supply, Disposition, Prices, and Emissions (2 of 2)**  
**(Billion Kilowatthours, Unless Otherwise Noted)**

6/ Other includes hydrogen, sulfur, batteries, chemicals, fish oil, and spent sulfite liquor.

7/ Includes small on-site generating systems in the residential, commercial, and industrial sectors used primarily for own-use generation, but which may also sell some power to the grid.

8/ In 1999 approximately 70 percent of the U.S. electricity imports were provided by renewable sources (hydroelectricity); EIA does not project future proportions for the fuel source of imported electricity.

9/ Prices represent average revenue per kilowatthour.

Note: Totals may not equal sum of components due to independent rounding. Data for 1998 and 1999 are model results and may differ slightly from official EIA data reports.

Sources: 1998: Electric generators and cogenerators generation, sales to utilities, net imports, residential, industrial, and total electricity sales, and emissions: Energy Information Administration (EIA), Electric Power Annual 1998 Volume 2, DOE/EIA-0348(98)/2 (Washington, DC, December 1999), and supporting databases. Other generators: EIA, Form EIA-860B: "Annual Electric Generator Report - Nonutility" and Department of Energy, Office of Energy Efficiency and Renewable Energy estimates. Commercial and transportation electricity sales: Energy Information Administration (EIA) estimates based on Oak Ridge National Laboratory, Transportation Energy Data Book 19 (Oak Ridge, TN, September 1999). Prices: EIA, AEO2001 National Energy Modeling System run AEO2001.D101600A. 1999 and projections: EIA, AEO2001 National Energy Modeling System run AEO2001.D101600A.



**Table 9. Electricity Generating Capability (2 of 2)**  
**(Gigawatts)**

1/ Net summer capability is the steady hourly output that generating equipment is expected to supply to system load (exclusive of auxiliary power), as demonstrated by tests during summer peak demand.  
2/ Includes grid-connected utilities and nonutilities except for cogenerators. Includes small power producers and exempt wholesale generators.  
3/ Includes oil-, gas-, and dual-fired capability.  
4/ Includes conventional hydroelectric, geothermal, wood, wood waste, municipal solid waste, landfill gas, other biomass, solar and wind power.  
5/ Primarily peak-load capacity fueled by natural gas.  
6/ Cumulative additions after December 31, 1999.  
7/ Cumulative total retirements after December 31, 1999.  
8/ Nameplate capacity is reported for nonutilities on Form EIA-860B, "Annual Electric Generator Report - Nonutility." Nameplate capacity is designated by the manufacturer. Nameplate capacity is designated by the manufacturer. The nameplate capacity has been converted to the net summer capability based on historic relationships.  
9/ Includes small on-site generating systems in the residential, commercial, and industrial sectors used primarily for own-use generation, but which may also sell some power to the grid. Excludes off-grid photovoltaics and other generators not connected to the distribution or transmission systems.  
10/ See Table 17 for more detail.  
N/A = Not applicable.  
Note: Totals may not equal sum of components due to independent rounding. Data for 1998 and 1999 are model results and may differ slightly from official EIA data reports. Net summer capability has been estimated for nonutility generators to be consistent with capability estimates for electric utility generators.  
Sources: 1998 electric utilities capability and projected planned additions: Energy Information Administration (EIA), Form EIA-860A: "Annual Electric Generator Report - Utility." 1998 nonutilities including cogenerators capability and projected planned additions: EIA, Form EIA-860B: "Annual Electric Generator Report - Nonutility" and NewGen Data and Analysis, RDI Consulting/FT Energy (Boulder, CO, August 2000). 1998 other generators capability: EIA, Form EIA-860B: "Annual Electric Generator Report - Nonutility," and Department of Energy, Office of Energy Efficiency and Renewable Energy estimates. 1999 and projections: EIA, AEO2001 National Energy Modeling System run AEO2001.D101600A.

**Table 10. Electricity Trade (1 of 1)**  
**(Billion Kilowatthours, Unless Otherwise Noted)**

Electricity Trade	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1999-2020
Interregional Electricity Trade																								
Gross Domestic Firm Power Sales	197.2	182.2	156.9	142.7	138.9	136.7	132.4	125.3	117.0	117.0	115.0	114.4	102.9	91.5	80.0	68.6	57.2	45.7	34.3	22.9	11.4	5.7	0.0	N/A
Gross Domestic Economy Sales	154.6	147.2	150.4	156.8	173.0	177.8	184.2	204.0	215.4	217.2	215.1	221.1	220.5	223.3	229.6	231.7	232.1	229.9	231.4	230.0	230.2	228.2	228.2	2.1%
Gross Domestic Trade	351.7	329.4	307.2	299.5	311.9	314.5	316.7	329.3	332.4	334.2	330.1	335.5	323.4	314.7	309.6	300.3	289.3	275.6	265.7	252.9	241.7	234.0	228.2	-1.7%
Gross Domestic Firm Power Sales																								
(million 1999 dollars)	9293.3	8588.1	7395.1	6728.6	6545.3	6442.0	6242.1	5905.8	5514.2	5513.2	5422.1	5390.3	4851.2	4312.2	3773.2	3234.2	2695.1	2156.1	1617.1	1078.1	539.0	269.5	0.0	N/A
Gross Domestic Economy Sales																								
(million 1999 dollars)	4753.0	4331.4	5938.7	5752.9	5598.5	5405.0	5492.3	5948.3	6160.6	6171.0	6011.1	6169.8	6121.3	6198.0	6352.7	6430.6	6474.7	6478.0	6546.9	6557.6	6672.6	6669.8	6745.2	2.1%
Gross Domestic Sales																								
(million 1999 dollars)	14046.4	12919.5	13333.8	12481.5	12143.8	11847.0	11734.4	11854.1	11674.8	11684.2	11433.2	11560.0	10972.5	10510.2	10125.9	9664.8	9169.9	8634.1	8164.0	7635.7	7211.6	6939.3	6745.2	-3.0%
International Electricity Trade																								
Firm Power Imports from Canada and Mexico 1/	21.3	27.0	23.7	16.5	14.6	13.6	11.1	10.7	6.7	6.7	6.7	6.5	5.8	5.2	4.5	3.9	3.2	2.6	1.9	1.3	0.6	0.3	0.0	N/A
Economy Imports from Canada and Mexico 1/	24.1	20.6	22.8	32.0	47.3	53.2	54.8	58.0	60.3	55.2	48.9	46.0	39.5	39.4	33.8	32.2	30.3	30.0	31.1	30.8	31.3	31.4	28.6	1.6%
Mexico 1/	45.4	47.6	46.5	48.5	61.9	66.8	65.8	68.7	67.0	61.9	55.6	52.5	45.3	44.5	38.3	36.1	33.6	32.6	33.0	32.1	31.9	31.7	28.6	-2.4%
Mexico	3.8	9.2	6.6	6.5	6.5	6.0	9.7	9.7	9.7	9.7	9.7	9.7	8.7	7.8	6.8	5.8	4.8	3.9	2.9	1.9	1.0	0.5	0.0	N/A
Mexico	14.1	6.3	6.4	6.5	6.6	6.7	6.9	7.0	7.1	7.2	7.4	7.5	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	0.9%
Gross Exports To Canada and Mexico	17.9	15.5	13.0	13.1	13.1	12.7	16.6	16.7	16.8	16.9	17.1	17.2	16.4	15.4	14.4	13.5	12.5	11.5	10.6	9.6	8.6	8.1	7.7	-3.3%

1/ Historically electricity imports were primarily from renewable resources, principally hydroelectric.

N/A = Not applicable.

Note: Totals may not equal sum of components due to independent rounding. Data for 1998 and 1999 are model results and may differ slightly from official EIA data reports. Firm Power Sales are capacity sales, meaning the delivery of the power is scheduled as part of the normal operating conditions of the affected electric systems. Economy Sales are subject to curtailment or cessation of delivery by the supplier in accordance with prior agreements or under specified conditions.

Sources: 1998 interregional firm electricity trade data: North America Electric Reliability Council (NERC), Electricity Sales and Demand Database 1998. 1998 international electricity trade data: DOE Form FE-718R, "Annual Report of International Electrical Export/Import Data." 1998 firm/economy share: National Energy Board, Annual Report 1998. 1999 and Projections: Energy Information Administration, AEO2001 National Energy Modeling System run AEO2001.D101600A.

**Table 11. Petroleum Supply and Disposition Balance (1 of 2)**  
**(Million Barrels per Day, Unless Otherwise Noted)**

Supply and Disposition	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1999-2020
Crude Oil																								
Domestic Crude Production 1/	6.23	5.88	5.88	5.88	5.63	5.49	5.37	5.23	5.05	4.84	4.67	4.57	4.51	4.44	4.43	4.40	4.35	4.37	4.41	4.44	4.43	4.41	4.35	-1.4%
Alaska	1.18	1.05	0.95	0.91	0.94	0.88	0.82	0.77	0.72	0.68	0.65	0.62	0.62	0.62	0.67	0.69	0.66	0.68	0.72	0.73	0.70	0.66	0.62	-2.5%
Lower 48 States	5.05	4.83	4.93	4.97	4.68	4.60	4.55	4.46	4.33	4.17	4.02	3.95	3.89	3.83	3.76	3.71	3.69	3.69	3.71	3.73	3.75	3.74	3.75	-1.2%
Net Imports	8.60	8.61	8.91	9.36	9.81	9.99	10.18	10.41	10.63	11.10	11.45	11.69	11.89	12.01	12.33	12.50	12.69	12.94	13.03	13.15	13.19	13.23	13.31	2.1%
Gross Imports	8.70	8.73	9.01	9.43	9.88	10.05	10.23	10.46	10.67	11.13	11.47	11.71	11.91	12.02	12.34	12.51	12.70	12.95	13.04	13.16	13.20	13.24	13.32	2.0%
Exports	0.11	0.12	0.10	0.07	0.06	0.06	0.05	0.05	0.04	0.03	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	-11.1%
Other Crude Supply 2/	0.04	0.31	0.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Total Crude Supply	14.87	14.80	15.06	15.24	15.44	15.48	15.55	15.64	15.68	15.94	16.11	16.26	16.40	16.46	16.76	16.90	17.04	17.31	17.44	17.59	17.62	17.64	17.67	0.8%
Natural Gas Plant Liquids	1.76	1.85	1.95	1.93	1.99	2.04	2.09	2.09	2.13	2.18	2.22	2.27	2.34	2.38	2.43	2.48	2.54	2.61	2.65	2.71	2.76	2.80	2.81	2.0%
Other Inputs 3/	0.32	0.60	0.39	0.17	0.17	0.20	0.20	0.21	0.20	0.20	0.21	0.21	0.21	0.21	0.22	0.22	0.22	0.22	0.22	0.22	0.23	0.23	0.23	-4.4%
Refinery Processing Gain 4/	0.89	0.89	0.93	0.89	0.88	0.85	0.85	0.85	0.86	0.87	0.88	0.87	0.87	0.88	0.88	0.87	0.86	0.85	0.83	0.82	0.81	0.81	0.77	-0.6%
Net Product Imports 5/	1.17	1.30	1.26	2.01	2.13	2.34	2.53	2.78	3.06	3.06	3.15	3.30	3.42	3.62	3.59	3.76	3.93	4.02	4.27	4.39	4.65	4.97	5.46	7.1%
Gross Refined Product Imports 6/	1.63	1.73	1.68	2.23	2.37	2.70	2.87	3.04	3.33	3.25	3.22	3.33	3.43	3.63	3.70	3.87	4.06	4.25	4.48	4.64	4.87	5.10	5.54	5.7%
Unfinished Oil Imports	0.30	0.32	0.35	0.43	0.37	0.38	0.41	0.50	0.51	0.60	0.73	0.78	0.80	0.82	0.73	0.73	0.73	0.62	0.67	0.64	0.68	0.78	0.85	4.8%
Ether Imports	0.07	0.08	0.08	0.10	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Exports	0.83	0.82	0.85	0.75	0.72	0.74	0.75	0.75	0.78	0.79	0.81	0.82	0.83	0.84	0.84	0.85	0.86	0.88	0.89	0.89	0.91	0.93	0.6%	
Total Primary Supply 7/	19.00	19.44	19.60	20.24	20.61	20.92	21.23	21.57	21.93	22.25	22.57	22.91	23.25	23.55	23.87	24.23	24.61	25.00	25.41	25.73	26.07	26.45	26.95	1.6%
Refined Petroleum Products Supplied																								
Motor Gasoline 8/	8.25	8.43	8.44	8.80	9.06	9.17	9.34	9.52	9.69	9.86	10.00	10.16	10.31	10.44	10.58	10.72	10.87	11.01	11.16	11.30	11.42	11.55	11.67	1.6%
Jet Fuel 9/	1.62	1.67	1.71	1.75	1.75	1.80	1.85	1.90	1.96	2.01	2.07	2.13	2.20	2.26	2.33	2.40	2.47	2.54	2.62	2.69	2.76	2.84	2.91	2.7%
Distillate Fuel 10/	3.50	3.52	3.64	3.81	3.92	4.01	4.09	4.18	4.28	4.37	4.44	4.50	4.57	4.63	4.70	4.79	4.87	4.96	5.10	5.16	5.21	5.33	5.47	2.1%
Residual Fuel	0.93	0.82	0.77	0.89	0.82	0.81	0.80	0.79	0.79	0.75	0.74	0.77	0.77	0.75	0.76	0.76	0.78	0.78	0.78	0.78	0.78	0.79	0.80	-0.1%
Other 11/	4.61	5.07	4.95	5.07	5.13	5.18	5.20	5.23	5.27	5.32	5.37	5.41	5.46	5.52	5.56	5.62	5.69	5.76	5.81	5.86	5.94	6.00	6.15	0.9%
Total	18.92	19.50	19.51	20.31	20.68	20.97	21.28	21.63	21.98	22.30	22.62	22.96	23.30	23.60	23.92	24.29	24.66	25.05	25.46	25.79	26.12	26.50	27.00	1.6%
Refined Petroleum Products Supplied																								
Residential and Commercial	1.06	1.10	1.11	1.19	1.21	1.21	1.21	1.21	1.20	1.19	1.19	1.18	1.18	1.18	1.18	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19	0.4%
Industrial 12/	4.81	5.16	4.97	5.13	5.16	5.23	5.28	5.35	5.45	5.49	5.55	5.64	5.71	5.77	5.82	5.89	5.96	6.04	6.10	6.16	6.25	6.32	6.48	1.1%
Transportation	12.49	12.86	13.11	13.58	13.94	14.18	14.46	14.77	15.07	15.36	15.63	15.91	16.18	16.43	16.69	16.95	17.24	17.52	17.81	18.08	18.33	18.58	18.84	1.8%
Electric Generators 13/	0.55	0.38	0.31	0.41	0.37	0.34	0.33	0.30	0.27	0.26	0.25	0.24	0.24	0.22	0.23	0.26	0.27	0.29	0.35	0.35	0.34	0.41	0.49	1.2%
Total	18.92	19.50	19.51	20.31	20.68	20.97	21.28	21.63	21.98	22.30	22.62	22.96	23.30	23.60	23.92	24.29	24.66	25.05	25.46	25.79	26.12	26.50	27.00	1.6%
Discrepancy 14/	0.08	-0.07	0.09	-0.07	-0.07	-0.05	-0.05	-0.05	-0.05	-0.06	-0.06	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	N/A
barrel) 15/	12.02	17.35	27.59	20.51	17.18	15.79	15.37	15.10	15.10	15.10	15.10	15.10	15.10	15.10	15.10	15.10	15.10	15.10	15.10	15.10	15.10	15.10	15.10	-0.7%
Imports Share of Product Supplied	0.52	0.51	0.52	0.56	0.58	0.59	0.60	0.61	0.62	0.63	0.64	0.65	0.66	0.66	0.67	0.67	0.67	0.68	0.68	0.68	0.68	0.69	0.70	1.5%
and dollars)	46.22	60.16	103.07	86.84	77.01	73.82	74.74	76.79	80.40	83.29	86.03	88.67	91.01	93.29	94.94	97.28	99.91	102.07	104.77	106.71	108.96	111.70	115.80	3.2%
16/	16.3	16.5	16.5	16.8	16.8	16.8	16.8	16.9	17.1	17.2	17.3	17.4	17.5	17.6	17.8	17.9	18.1	18.3	18.5	18.6	18.6	18.7	18.7	0.6%
Capacity Utilization Rate (percent)	96.0	93.0	93.0	91.0	92.1	92.1	92.4	92.8	92.0	93.0	93.5	93.6	94.0	93.9	94.4	94.6	94.7	94.8	94.9	95.1	95.0	95.1	95.1	0.1%

1/ Includes lease condensate.

2/ Strategic petroleum reserve stock additions plus unaccounted for crude oil and crude stock withdrawals minus crude products supplied.

3/ Includes alcohols, ethers, petroleum product stock withdrawals, domestic sources of blending components, and other hydrocarbons.

4/ Represents volumetric gain in refinery distillation and cracking processes.

5/ Includes net imports of finished petroleum products, unfinished oils, other hydrocarbons, alcohols, ethers, and blending components.

6/ Includes blending components.

7/ Total crude supply plus natural gas plant liquids, other inputs, refinery processing gain, and net petroleum imports.

8/ Includes ethanol and ethers blended into gasoline.

9/ Includes naphtha and kerosene types.

10/ Includes distillate and kerosene.

**Table 11. Petroleum Supply and Disposition Balance (2 of 2)**  
**(Million Barrels per Day, Unless Otherwise Noted)**

11/ Includes aviation gasoline, liquefied petroleum gas, petrochemical feedstocks, lubricants, waxes, asphalt, road oil, still gas, special naphthas, petroleum coke, crude oil product supplied, and miscellaneous petroleum products.

12/ Includes consumption by cogenerators.

13/ Includes all electric power generators except cogenerators, which produce electricity and other useful thermal energy. Includes small power producers and exempt wholesale generators.

14/ Balancing item. Includes unaccounted for supply, losses and gains.

15/ Average refiner acquisition cost for imported crude oil.

16/ End-of-year capacity.

N/A = Not applicable.

Note: Totals may not equal sum of components due to independent rounding. Data for 1998 and 1999 are model results and may differ slightly from official EIA data reports.

Sources: 1998 and 1999 product supplied data from Table 2. Other 1998 data: Energy Information Administration (EIA), Petroleum Supply Annual 1998, DOE/EIA-0340(98/1) (Washington, DC, June 1999). Other 1999 data: EIA, Petroleum Supply Annual 1999, DOE/EIA-0340(99/1) (Washington, DC, June 2000). Projections: EIA, AEO2001 National Energy Modeling System run AEO2001.D101600A.

**Table 12. Petroleum Product Prices (1 of 1)**  
**(1999 Cents per Gallon, Unless Otherwise Noted)**

Sector and Fuel	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1999-
barrel)	12.02	17.35	27.59	20.51	17.18	15.79	15.37	15.10	15.10	15.10	15.10	15.10	15.10	15.10	15.10	15.10	15.10	15.10	15.10	15.10	15.10	15.10	-0.7%	
Delivered Sector Product Prices																								
Residential																								
Distillate Fuel	86.7	87.0	126.2	99.3	91.5	88.3	88.0	87.5	88.6	88.4	88.1	88.3	88.3	88.7	88.6	88.8	89.6	89.8	89.3	89.6	90.1	91.0	91.4	0.2%
Liquefied Petroleum Gas	90.2	89.4	111.7	112.6	103.2	99.8	98.7	98.1	98.3	98.4	98.5	98.6	97.3	96.6	97.4	97.0	97.4	97.5	98.1	98.0	98.9	98.9	98.9	0.5%
Commercial																								
Distillate Fuel	55.6	60.6	91.3	68.9	61.0	57.7	57.3	56.7	57.7	57.5	57.2	57.3	57.2	57.5	57.4	57.5	58.2	58.4	57.9	58.2	58.7	59.6	60.0	0.0%
Residual Fuel	36.2	39.3	65.3	54.8	46.9	43.6	42.6	41.7	41.5	41.4	41.3	41.2	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	0.2%
barrel)	15.19	16.53	27.44	23.03	19.69	18.29	17.87	17.53	17.42	17.37	17.33	17.29	17.28	17.25	17.26	17.24	17.27	17.27	17.26	17.24	17.25	17.26	17.26	0.2%
Industrial 1/																								
Distillate Fuel	57.1	64.5	93.1	71.0	63.2	60.1	59.8	59.2	60.2	60.0	59.8	59.9	59.9	60.2	60.2	60.4	61.0	61.2	60.8	61.1	61.7	62.6	63.1	-0.1%
Liquefied Petroleum Gas	62.7	73.4	71.1	71.4	62.1	58.6	57.5	56.9	57.2	57.4	57.4	57.5	56.0	55.2	56.1	55.6	55.9	56.0	56.5	56.3	57.3	57.3	57.4	-1.2%
Residual Fuel	38.3	41.7	61.2	48.7	42.8	39.4	38.4	37.2	35.9	37.3	37.2	35.7	35.7	35.6	35.6	35.6	35.7	35.7	35.7	35.7	35.7	35.7	35.7	-0.7%
barrel)	16.10	17.50	25.70	20.43	17.97	16.55	16.11	15.61	15.06	15.68	15.62	15.00	14.99	14.97	14.97	14.97	14.96	14.98	14.99	14.99	14.98	14.98	14.99	-0.7%
Transportation																								
Diesel Fuel (Distillate) 2/	106.2	114.0	145.0	121.7	113.8	110.4	110.0	108.9	109.3	108.9	108.7	108.1	108.3	107.6	107.7	107.7	106.4	106.3	106.6	107.3	107.1			-0.3%
Jet Fuel 3/	55.8	63.5	88.6	67.3	59.7	57.1	56.9	56.5	57.9	58.0	58.8	58.9	58.4	58.6	58.2	58.8	60.2	60.2	59.4	59.8	60.4	60.3		-0.2%
Motor Gasoline 4/	109.3	118.2	149.6	132.6	120.3	117.5	117.2	114.5	117.9	117.6	117.5	117.2	116.8	116.5	113.6	114.1	115.2	115.2	112.9	112.1	111.5	110.5	110.4	-0.3%
Liquefied Petroleum Gas	96.9	111.1	124.8	124.5	115.6	113.5	112.1	111.1	111.1	111.0	110.5	110.3	108.9	108.1	108.8	108.3	108.3	108.7	108.3	108.6	108.4	108.0		-0.1%
Residual Fuel	34.2	36.8	56.0	46.4	38.3	34.9	33.8	33.1	33.1	33.0	33.0	33.0	32.9	32.9	32.8	32.8	32.8	32.8	32.8	32.7	32.7	32.7	32.7	-0.6%
barrel)	14.37	15.45	23.53	19.49	16.07	14.64	14.20	13.91	13.90	13.84	13.87	13.84	13.83	13.81	13.79	13.78	13.78	13.77	13.76	13.74	13.73	13.72		-0.6%
Ethanol (E85)	127.7	129.2	151.6	160.3	147.4	165.4	165.2	165.0	164.7	163.7	163.4	162.6	163.3	163.7	163.6	164.1	164.8	165.3	162.0	162.7	162.8	163.3	164.0	1.1%
Methanol (M85)	65.5	76.2	98.8	101.1	93.2	88.0	86.5	88.2	89.1	87.3	87.8	89.3	89.7	89.5	89.1	89.0	88.6	89.0	88.0	87.8	87.7	87.6	87.6	0.7%
Electric Generators 5/																								
Distillate Fuel	45.1	56.2	84.7	61.3	54.2	50.8	50.6	50.8	52.1	52.5	52.2	52.3	51.9	52.1	51.9	51.7	52.3	52.4	51.8	52.1	52.6	53.4	53.4	-0.2%
Residual Fuel	33.2	36.2	60.9	51.2	43.3	39.9	38.8	38.2	38.3	38.3	38.4	38.5	38.4	38.2	38.2	38.3	38.2	38.2	38.2	38.4	38.4	38.4	38.4	0.3%
barrel)	13.93	15.21	25.56	21.52	18.18	16.74	16.30	16.04	16.08	16.10	16.14	16.15	16.15	16.06	16.06	16.10	16.05	16.03	16.06	16.11	16.13	16.11		0.3%
Refined Petroleum Product Prices 6/																								
Distillate Fuel	92.7	100.8	133.3	109.3	101.5	98.3	97.9	97.0	97.9	97.4	97.1	97.1	96.7	96.9	96.3	96.3	96.4	96.3	94.9	95.1	95.5	95.8	95.3	-0.3%
Jet Fuel 3/	55.8	63.5	88.6	67.3	59.7	57.1	56.9	56.5	57.9	58.0	58.8	58.9	58.4	58.6	58.2	58.8	60.2	60.2	59.4	59.8	60.4	60.3		-0.2%
Liquefied Petroleum Gas	68.0	76.3	78.8	79.1	69.9	66.4	65.3	64.6	64.8	64.9	64.9	64.8	63.3	62.5	63.2	62.7	62.9	62.9	63.4	64.0	64.0	63.8		-0.8%
Motor Gasoline 4/	109.3	118.2	149.6	132.6	120.3	117.4	117.2	114.5	117.9	117.6	117.5	117.2	116.8	116.5	113.6	114.1	115.1	115.2	112.9	112.0	111.5	110.5	110.4	-0.3%
Residual Fuel	34.2	37.1	58.8	49.1	41.2	37.7	36.7	35.9	35.6	35.7	35.7	35.4	35.4	35.2	35.2	35.2	35.2	35.2	35.2	35.2	35.2	35.3	35.3	-0.2%
barrel)	14.38	15.59	24.71	20.61	17.29	15.85	15.40	15.06	14.95	15.00	14.99	14.86	14.85	14.79	14.78	14.79	14.79	14.79	14.80	14.80	14.80	14.81		-0.2%
Average	89.0	97.6	125.0	108.4	98.6	95.6	95.3	93.8	95.8	95.8	95.5	95.0	95.0	94.8	93.3	93.5	94.2	94.1	92.6	92.2	91.8	91.4		-0.3%

1/ Includes cogenerators. Includes Federal and State taxes while excluding county and state taxes.

2/ Low sulfur diesel fuel. Includes Federal and State taxes while excluding county and local taxes.

3/ Kerosene-type jet fuel.

4/ Sales weighted-average price for all grades. Includes Federal and State taxes while excluding county and local taxes.

5/ Includes all electric power generators except cogenerators, which produce electricity and other useful thermal energy. Includes small power producers and exempt wholesale generators.

6/ Weighted averages of end-use fuel prices are derived from the prices in each sector and the corresponding sectoral consumption.

Note: Data for 1998 and 1999 are model results and may differ slightly from official EIA data reports.

Sources: 1998 prices for gasoline, distillate, and jet fuel are based on prices in the Energy Information Administration (EIA), Petroleum Marketing Annual 1998,

[http://ftp.eia.doe.gov/pub/oil\\_gas/petroleum/data\\_publications/petroleum\\_marketing\\_annual/historical/1998/pdf/pmaall.pdf](http://ftp.eia.doe.gov/pub/oil_gas/petroleum/data_publications/petroleum_marketing_annual/historical/1998/pdf/pmaall.pdf) (October 1999). 1999 prices for gasoline, distillate, and jet fuel are based on prices in various issues of EIA, Petroleum Marketing Monthly, DOE/EIA-0380(99/03-2000/04) (Washington, DC, 1999-2000). 1998 and 1999 prices for all other petroleum products are derived from EIA, State Energy Price and Expenditure Report 1997, DOE/EIA-0376(97) (Washington, DC, July 2000). Projections: EIA, AEO2001 National Energy Modeling System run AEO2001.D10160A.

**Table 13. Natural Gas Supply and Disposition (1 of 1)**  
 (Trillion Cubic Feet per Year)

Supply and Disposition	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1999-2020
Production																								
Dry Gas Production 1/	18.71	18.67	18.61	18.47	19.16	19.72	20.29	20.36	20.77	21.34	21.76	22.28	23.02	23.49	24.06	24.63	25.30	25.98	26.45	27.11	27.71	28.07	28.25	2.0%
Supplemental Natural Gas 2/	0.10	0.10	0.11	0.13	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	-2.4%
Net Imports	2.99	3.38	3.51	3.71	3.88	4.16	4.37	4.57	4.71	4.83	4.97	5.07	5.17	5.25	5.32	5.40	5.46	5.53	5.60	5.64	5.67	5.70	5.73	2.5%
Canada	3.01	3.29	3.46	3.65	3.80	4.04	4.22	4.39	4.49	4.61	4.74	4.82	4.92	4.99	5.05	5.12	5.18	5.24	5.30	5.33	5.35	5.37	5.39	2.4%
Mexico	-0.04	-0.01	-0.08	-0.11	-0.13	-0.14	-0.16	-0.18	-0.19	-0.21	-0.22	-0.23	-0.25	-0.27	-0.28	-0.30	-0.31	-0.33	-0.34	-0.36	-0.37	-0.39	-0.40	21.7%
Liquefied Natural Gas	0.02	0.10	0.14	0.17	0.20	0.26	0.31	0.36	0.40	0.43	0.45	0.48	0.50	0.52	0.55	0.57	0.60	0.62	0.64	0.67	0.69	0.72	0.74	10.2%
Total Supply	21.80	22.15	22.23	22.31	23.15	23.99	24.78	25.05	25.59	26.29	26.84	27.46	28.25	28.79	29.43	30.08	30.82	31.57	32.11	32.81	33.44	33.83	34.04	2.1%
Consumption by Sector																								
Residential	4.55	4.72	4.84	5.01	5.13	5.22	5.30	5.33	5.37	5.41	5.47	5.49	5.54	5.59	5.66	5.70	5.76	5.82	5.89	5.94	6.00	6.06	6.14	1.3%
Commercial	3.02	3.07	3.18	3.30	3.43	3.52	3.57	3.60	3.63	3.65	3.68	3.70	3.72	3.76	3.79	3.81	3.84	3.86	3.88	3.90	3.91	3.92	3.93	1.2%
Industrial 3/	8.37	7.95	8.19	8.14	8.34	8.46	8.53	8.57	8.64	8.81	8.89	8.85	8.92	8.95	9.03	9.09	9.15	9.21	9.30	9.38	9.39	9.48	9.38	0.8%
Electric Generators 4/	3.68	3.78	3.90	3.87	4.23	4.65	5.15	5.29	5.61	6.00	6.42	6.85	7.42	7.80	8.20	8.66	9.19	9.73	10.03	10.53	11.04	11.22	11.42	5.4%
Lease and Plant Fuel 5/	1.16	1.23	1.22	1.22	1.25	1.28	1.32	1.32	1.35	1.38	1.41	1.44	1.48	1.51	1.55	1.59	1.63	1.67	1.70	1.74	1.77	1.79	1.80	1.8%
Pipeline Fuel	0.64	0.64	0.64	0.63	0.67	0.70	0.73	0.74	0.76	0.79	0.81	0.84	0.87	0.88	0.90	0.92	0.94	0.96	0.98	1.00	1.02	1.04	1.05	2.4%
Transportation 6/	0.01	0.02	0.02	0.03	0.03	0.04	0.05	0.05	0.06	0.07	0.07	0.08	0.09	0.10	0.10	0.11	0.12	0.12	0.13	0.13	0.14	0.14	0.15	11.4%
Total	21.41	21.41	21.99	22.19	23.08	23.87	24.64	24.90	25.41	26.11	26.74	27.26	28.04	28.59	29.23	29.88	30.63	31.38	31.92	32.62	33.28	33.65	33.86	2.2%
Discrepancy 7/	0.39	0.74	0.24	0.12	0.07	0.13	0.14	0.14	0.17	0.18	0.09	0.20	0.21	0.20	0.20	0.19	0.19	0.19	0.19	0.16	0.18	N/A	N/A	

1/ Marketed production (wet) minus extraction losses.

2/ Synthetic natural gas, propane air, coke oven gas, refinery gas, biomass gas, air injected for Btu stabilization, and manufactured gas commingled and distributed with natural gas.

3/ Includes consumption by cogenerators.

4/ Includes all electric power generators except cogenerators, which produce electricity and other useful thermal energy. Includes small power producers and exempt wholesale generators.

5/ Represents natural gas used in the field gathering and processing plant machinery.

6/ Compressed natural gas used as vehicle fuel.

7/ Balancing item. Natural gas lost as a result of converting flow data measured at varying temperatures and pressures to a standard temperature and pressure and the merger of different data reporting systems which vary in scope, format, definition, and respondent type. In addition, 1998 and 1999 values include net storage injections.

Btu = British thermal unit.

N/A = Not applicable.

Note: Totals may not equal sum of components due to independent rounding. Data for 1998 and 1999 are model results and may differ slightly from official EIA data reports.

Sources: 1998 supply values and consumption as lease, plant, and pipeline fuel: Energy Information Administration (EIA), Natural Gas Annual 1998, DOE/EIA-0131(98) (Washington, DC, October 1999). Other 1998 consumption derived from: EIA, State Energy Data Report 1997, DOE/EIA-0214(97) (Washington, DC, September 1999). 1999 supplemental natural gas: EIA, Natural Gas Monthly, DOE/EIA-0130(2000/06) (Washington, DC, June 2000). 1998 imports and dry gas production derived from: EIA, Natural Gas Annual 1998, DOE/EIA-0131(98) (Washington, DC, October 1999). 1999 transportation sector consumption: EIA, AEO2001 National Energy Modeling System run AEO2001.D101600A. Other 1999 consumption: EIA, Short-Term Energy Outlook, September 2000, <http://www.eia.doe.gov/pub/forecasting/steo/oldsteos/sep00.pdf> with adjustments to end-use sector consumption levels for consumption of natural gas by electric wholesale generators based on EIA, AEO2001 National Energy Modeling System run AEO2001.D101600A. Projections: EIA, AEO2001 National Energy Modeling System run AEO2001.D101600A.

**Table 14. Natural Gas Prices, Margins and Revenues (1 of 1)**  
**(1999 Dollars per Thousand Cubic Feet, Unless Otherwise Noted)**

Prices, Margins, and Revenue	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1999-	
																								2020	
<i>Source Price</i>																									
Average Lower 48 Wellhead Price 1/	2.02	2.08	3.32	3.28	2.74	2.47	2.40	2.45	2.50	2.56	2.60	2.62	2.66	2.67	2.69	2.71	2.74	2.77	2.80	2.85	2.90	2.96	3.01	1.8%	
Average Import Price	1.99	2.29	3.12	3.14	2.72	2.46	2.31	2.25	2.20	2.16	2.14	2.12	2.12	2.10	2.09	2.09	2.09	2.09	2.10	2.10	2.10	2.11	2.12	-0.4%	
Average 2/	2.01	2.11	3.28	3.26	2.74	2.47	2.38	2.41	2.44	2.48	2.51	2.52	2.55	2.56	2.58	2.59	2.62	2.65	2.67	2.71	2.75	2.80	2.85	1.4%	
<i>Delivered Prices</i>																									
Residential	6.92	6.69	7.39	7.90	7.29	6.93	6.75	6.71	6.68	6.68	6.65	6.63	6.62	6.59	6.55	6.53	6.50	6.49	6.47	6.47	6.48	6.50	6.52	-0.1%	
Commercial	5.62	5.49	5.86	6.26	5.73	5.44	5.33	5.36	5.39	5.45	5.49	5.52	5.57	5.55	5.54	5.53	5.53	5.54	5.56	5.59	5.62	5.66	5.66	0.1%	
Industrial 3/	2.80	2.87	4.11	4.08	3.54	3.26	3.16	3.18	3.21	3.26	3.28	3.30	3.34	3.35	3.37	3.39	3.42	3.46	3.49	3.54	3.60	3.66	3.72	1.2%	
Electric Generators 4/	2.46	2.59	3.98	3.80	3.26	2.96	2.85	2.83	2.87	2.91	2.92	2.94	2.98	3.01	3.04	3.08	3.13	3.17	3.21	3.27	3.34	3.40	3.45	1.4%	
Transportation 5/	6.57	7.21	8.15	7.94	7.32	6.98	6.85	6.85	6.91	6.97	7.01	7.04	7.09	7.11	7.09	7.11	7.12	7.14	7.11	7.12	7.13	7.16	0.0%		
Average 6/	4.13	4.16	5.15	5.33	4.76	4.43	4.28	4.28	4.28	4.29	4.28	4.28	4.27	4.27	4.27	4.28	4.28	4.32	4.35	4.40	4.44	4.40	4.44	0.3%	
<i>7/</i>																									
Residential	4.91	4.58	4.10	4.64	4.56	4.46	4.37	4.30	4.24	4.19	4.15	4.11	4.07	4.02	3.98	3.93	3.89	3.84	3.80	3.76	3.73	3.70	3.67	-1.0%	
Commercial	3.60	3.37	2.57	3.00	2.99	2.97	2.95	2.95	2.96	2.97	2.98	3.00	3.02	2.99	2.96	2.94	2.91	2.89	2.87	2.85	2.83	2.82	2.81	-0.9%	
Industrial 3/	0.79	0.75	0.82	0.82	0.81	0.79	0.78	0.77	0.78	0.77	0.78	0.79	0.79	0.79	0.80	0.81	0.82	0.82	0.83	0.85	0.86	0.87	0.7%		
Electric Generators 4/	0.44	0.48	0.69	0.54	0.52	0.49	0.47	0.42	0.43	0.43	0.41	0.42	0.42	0.44	0.46	0.48	0.51	0.53	0.54	0.57	0.59	0.60	1.1%		
Transportation 5/	4.56	5.10	4.87	4.69	4.58	4.51	4.48	4.44	4.47	4.49	4.50	4.52	4.54	4.51	4.51	4.50	4.49	4.49	4.44	4.40	4.37	4.33	4.31	-0.8%	
Average 6/	2.12	2.04	1.87	2.07	2.02	1.96	1.90	1.87	1.84	1.81	1.78	1.76	1.73	1.71	1.69	1.67	1.65	1.63	1.62	1.61	1.60	1.59	1.60	-1.2%	
<i>Transmission and Distribution Revenue</i>																									
(billion 1999 dollars)																									
Residential	22.31	21.61	19.83	23.26	23.36	23.26	23.13	22.90	22.80	22.70	22.67	22.57	22.53	22.49	22.52	22.43	22.39	22.35	22.41	22.36	22.38	22.42	22.55	0.2%	
Commercial	10.87	10.36	8.18	9.90	10.26	10.44	10.53	10.60	10.72	10.83	10.95	11.09	11.24	11.23	11.22	11.20	11.17	11.14	11.11	11.11	11.09	11.06	11.04	0.3%	
Industrial 3/	6.60	6.00	6.74	6.66	6.72	6.66	6.63	6.63	6.70	6.81	6.88	6.90	7.02	7.07	7.17	7.27	7.39	7.52	7.67	7.83	7.97	8.11	8.16	1.5%	
Electric Generators 4/	1.63	1.81	2.71	2.09	2.18	2.29	2.42	2.20	2.40	2.55	2.63	2.86	3.15	3.47	3.80	4.20	4.68	5.15	5.45	5.95	6.46	6.64	6.82	6.5%	
Transportation 5/	0.05	0.08	0.10	0.13	0.16	0.19	0.21	0.24	0.27	0.30	0.33	0.37	0.40	0.43	0.46	0.50	0.52	0.55	0.57	0.59	0.60	0.62	0.64	10.6%	
Total	41.45	39.86	37.57	42.04	42.68	42.84	42.93	42.57	42.88	43.18	43.46	43.78	44.35	44.70	45.18	45.60	46.15	46.71	47.24	47.85	48.50	48.85	49.21	1.0%	

1/ Represents lower 48 onshore and offshore supplies.

2/ Quantity-weighted average of the average lower 48 wellhead price and the average price of imports at the U.S. border.

3/ Includes consumption by cogenerators.

4/ Includes all electric power generators except cogenerators, which produce electricity and other useful thermal energy. Includes small power producers and exempt wholesale generators.

5/ Compressed natural gas used as a vehicle fuel. Price includes estimated motor vehicle fuel taxes.

6/ Weighted average prices and margins. Weights used are the sectoral consumption values excluding lease, plant, and pipeline fuel.

7/ Within the table, "transmission and distribution" margins equal the difference between the delivered price and the source price (average of the wellhead price and the price of imports at the U.S. border) of natural gas and, thus, reflect the total cost of bringing natural gas to market. When the term "transmission and distribution" margins is used in today's natural gas market, it generally does not include the cost of independent natural gas marketers or costs associated with aggregation of supplies, provisions of storage, and other services. As used here, the term includes the cost of all services and the cost of pipeline fuel used in compressor stations.

Note: Totals may not equal sum of components due to independent rounding. Data for 1998 and 1999 are model results and may differ slightly from official EIA data reports.

Sources: 1998 residential, commercial, and transportation delivered prices; average lower 48 wellhead price; and average import price: Energy Information Administration (EIA), Natural Gas Annual 1998, DOE/EIA-0131(98) (Washington, DC, October 1999). 1998 electric generators delivered price: Form FERC-423, "Monthly Report of Cost and Quality of Fuels for Electric Plants." 1998 and 1999 industrial delivered prices based on EIA, Manufacturing Energy Consumption Survey 1994. 1999 residential and commercial delivered prices, average lower 48 wellhead price, and average import price: EIA, Natural Gas Monthly, DOE/EIA-0130(2000/06) (Washington, DC, June 2000).

Other 1998 values, other 1999 values, and projections: EIA, AEO2001 National Energy Modeling System run AEO2001.D101600A.

**Table 15. Oil and Gas Supply (1 of 1)**

Production and Supply	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1999-	
Crude Oil																									
Lower 48 Average Wellhead Price 1/																									
(1999 dollars per barrel)	11.79	16.49	25.87	20.04	16.58	15.18	14.83	14.55	14.50	14.51	14.46	14.47	14.47	14.57	14.41	14.39	14.46	14.37	14.32	14.22	14.32	14.34	14.40	-0.6%	
Production (million barrels per day) 2/																									
U.S. Total	6.23	5.88	5.88	5.88	5.63	5.49	5.37	5.23	5.05	4.84	4.67	4.57	4.51	4.44	4.43	4.40	4.35	4.37	4.41	4.44	4.43	4.41	4.35	-1.4%	
Lower 48 Onshore	3.60	3.27	3.31	3.30	3.02	2.87	2.73	2.59	2.47	2.37	2.29	2.22	2.17	2.13	2.10	2.08	2.08	2.10	2.12	2.15	2.19	2.21	-1.9%		
Conventional	2.87	2.59	2.67	2.67	2.42	2.30	2.18	2.06	1.97	1.88	1.82	1.77	1.73	1.70	1.69	1.68	1.69	1.71	1.73	1.77	1.81	1.86	1.88	-1.5%	
Enhanced Oil Recovery	0.73	0.68	0.65	0.63	0.60	0.57	0.55	0.53	0.50	0.48	0.47	0.45	0.44	0.43	0.41	0.40	0.39	0.38	0.36	0.35	0.34	0.33	0.32	-3.5%	
Lower 48 Offshore	1.45	1.56	1.62	1.67	1.66	1.73	1.82	1.87	1.86	1.80	1.74	1.73	1.72	1.69	1.66	1.63	1.61	1.61	1.60	1.59	1.58	1.56	1.53	-0.1%	
Alaska	1.18	1.05	0.95	0.91	0.94	0.88	0.82	0.77	0.72	0.68	0.65	0.62	0.62	0.67	0.69	0.66	0.68	0.72	0.73	0.70	0.66	0.62	-2.5%		
Lower 48 End of Year Reserves (billion barrels) 2/	17.32	18.33	17.52	16.90	16.29	15.79	15.28	14.68	14.01	13.43	13.04	12.68	12.35	12.05	11.78	11.60	11.48	11.38	11.34	11.28	11.27	11.19	11.13	-2.3%	
Natural Gas																									
Lower 48 Average Wellhead Price 1/																									
(1999 dollars per thousand cubic feet)	2.02	2.08	3.32	3.28	2.74	2.47	2.40	2.45	2.50	2.56	2.60	2.62	2.66	2.67	2.69	2.71	2.74	2.77	2.80	2.85	2.90	2.96	3.01	1.8%	
Dry Production (trillion cubic feet) 3/																									
U.S. Total	18.71	18.67	18.61	18.47	19.16	19.72	20.29	20.36	20.77	21.34	21.76	22.28	23.02	23.49	24.06	24.63	25.30	25.98	26.45	27.11	27.71	28.07	28.25	2.0%	
Lower 48 Onshore	12.84	12.83	13.42	13.53	13.97	14.11	14.16	13.88	13.99	14.38	14.72	15.24	15.96	16.50	17.08	17.63	18.23	18.76	19.14	19.68	20.24	20.67	20.97	2.4%	
Associated-Dissolved 4/	1.77	1.80	1.67	1.73	1.73	1.58	1.52	1.47	1.41	1.37	1.33	1.30	1.28	1.27	1.26	1.26	1.27	1.28	1.30	1.32	1.34	1.37	1.3%		
Non-Associated	11.08	11.03	11.75	11.80	12.24	12.53	12.63	12.41	12.58	13.01	13.39	13.94	14.68	15.23	15.82	16.37	16.96	17.49	17.85	18.38	18.93	19.33	19.60	2.8%	
Conventional	6.63	6.64	7.02	7.11	7.34	7.31	7.18	6.88	6.92	7.11	7.30	7.67	8.13	8.62	9.12	9.56	9.98	10.34	10.53	10.79	11.04	11.21	11.30	2.6%	
Unconventional	4.45	4.39	4.72	4.69	4.91	5.22	5.45	5.55	5.66	5.90	6.09	6.27	6.55	6.61	6.70	6.82	6.98	7.15	7.33	7.59	7.88	8.12	8.30	3.1%	
Lower 48 Offshore	5.44	5.43	4.76	4.51	4.74	5.16	5.68	6.02	6.30	6.48	6.54	6.54	6.55	6.48	6.46	6.47	6.54	6.68	6.77	6.88	6.91	6.84	6.71	1.0%	
Associated-Dissolved 4/	0.93	0.93	0.96	0.98	0.99	0.98	1.00	1.02	1.03	1.03	1.02	1.00	1.00	1.00	0.99	0.99	0.98	0.98	0.97	0.97	0.97	0.96	0.2%		
Non-Associated	4.51	4.50	3.80	3.53	3.76	4.18	4.68	5.00	5.27	5.45	5.53	5.54	5.55	5.48	5.46	5.48	5.57	5.71	5.79	5.91	5.94	5.87	5.75	1.2%	
Alaska	0.43	0.42	0.43	0.43	0.44	0.45	0.46	0.47	0.47	0.48	0.49	0.50	0.50	0.51	0.52	0.53	0.53	0.54	0.55	0.56	0.56	0.57	1.5%		
Lower 48 End of Year Dry Reserves 3/																									
(trillion cubic feet)	154.11	157.41	163.87	167.92	169.22	167.92	167.46	168.07	168.92	169.85	171.73	173.39	174.84	176.68	178.51	179.93	181.17	182.43	184.46	186.10	186.87	187.42	187.53	0.8%	
Supplemental Gas Supplies (trillion cubic feet) 5/	0.10	0.10	0.11	0.13	0.11	0.11	0.11	0.11	0.11	0.11	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	-2.4%		
Lower 48 Wells (thousands)	23.77	17.94	22.83	22.29	20.86	20.64	21.51	22.50	23.42	24.88	26.18	26.38	26.67	27.59	28.24	28.31	28.90	29.76	32.14	32.94	33.96	35.20	36.67	3.5%	

1/ Represents lower 48 onshore and offshore supplies.

2/ Includes lease condensate.

3/ Marketed production (wet) minus extraction losses.

4/ Gas which occurs in crude oil reserves either as free gas (associated) or as gas in solution with crude oil (dissolved).

5/ Synthetic natural gas, propane air, coke oven gas, refinery gas, biomass gas, air injected for Btu stabilization, and manufactured gas commingled and distributed with natural gas.

Btu = British thermal unit.

Note: Totals may not equal sum of components due to independent rounding. Data for 1998 and 1999 are model results and may differ slightly from official EIA data reports.

Sources: 1998 lower 48 onshore, lower 48 offshore, Alaska crude oil production: Energy Information Administration (EIA), Petroleum Supply Annual 1998, DOE/EIA-0340(98/1) (Washington, DC, June 1999). 1998 U.S. crude oil and natural gas reserves: EIA, U.S. Crude Oil, Natural Gas, and Natural Gas Liquids Reserves: DOE/EIA-0216(98) (Washington, DC, December 1999). 1998 natural gas lower 48 average wellhead price and total natural gas production: EIA, Natural Gas Annual 1998, DOE/EIA-0131(98) (Washington, DC, October 1999). 1999 lower 48 onshore, lower 48 offshore, and Alaska crude oil production: EIA, Petroleum Supply Annual 1999, DOE/EIA-0340(99/1) (Washington, DC, June 2000). 1999 natural gas lower 48 average wellhead price, Alaska and total natural gas production, and supplemental gas supplies: EIA, Natural Gas Monthly, DOE/EIA-0130(2000/06) (Washington, DC, June 2000). Other 1998 and 1999 values: EIA, Office of Integrated Analysis and Forecasting. Projections: EIA, AEO2001 National Energy Modeling System run AEO2001.D10160A.











